

**PESTICIDES UNIT**

**Scientific Panel on Plant Protection Products and their Residues  
Minutes of the 15<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment  
Held on 25-26 March 2014, Parma**

**(Agreed on 31 March 2014)**

**Participants**

- **Working Group Experts:**
  - Jos Boesten
  - Fabio Sgolastra
  
- **Hearing Experts:**
  - none
  
- **European Commission and/or Member States representatives:**
  - none
  
- **EFSA:**
  - Pesticides Unit: Csaba Szentes
  - AMU Unit: José Cortinas Abrahantes

**1. Welcome and apologies for absence**

The Chair welcomed the participants.

**2. Adoption of agenda**

The agenda was adopted without changes.

### 3. Declarations of interest

In accordance with EFSA's Policy on Independence and Scientific Decision-Making Processes<sup>1</sup> and the Decision of the Executive Director implementing this Policy regarding Declarations of Interests<sup>2</sup>, EFSA screened the Annual Declaration of interest and the Specific Declaration of interest) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the Oral Declaration of interest at the beginning of this meeting.

### 4. Scientific topic for discussion

#### 4.1 EFSA Guidance Document (GD) on the Risk Assessment of Plant Protection Products on Bees (including *Apis mellifera*, *Bombus* spp. and solitary bees) ([EFSA-Q-2011-00418](#))

During the meeting the Working Group members discussed some pending issues. These issues were identified by getting experience of using the GD. Some of these issues were identified during the regulatory stakeholders meeting (Workshop on EFSA Guidance Document on the Risk Assessment of Plant Protection Products on Bees (*Apis mellifera*, *Bombus* spp. and solitary bees)) organised by the COM (held in Brussels, 11-12, December, 2013) and some issues were identified during the development of the calculator tool for the 1<sup>st</sup> tier assessments.

All those actions are oriented to agree and make necessary corrections/amendments on the GD in order to make it more robust and straightforward.

Moreover, the set up of new calculator tools to support the risk assessments were discussed.

### 5. Next meeting(s)

No new meeting is envisaged, but unclosed issues will be finalised by written procedure.

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<sup>1</sup> <http://www.efsa.europa.eu/en/keydocs/docs/independencypolicy.pdf>

<sup>2</sup> <http://www.efsa.europa.eu/en/keydocs/docs/independencerules.pdf>

Parma, 22 April 2013

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 14<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 17/19 April 2013**

**EFSA / Pesticides**

**Participants**

- **Working Group Experts:**
  - Robert Luttik, Jos Boesten, Mark Clook, Fabio Sgolastra, Gérard Arnold
- **EFSA:**
  - Pesticides Unit: Franz Streissl, Csaba Szentes, Maria Arena

**1. Welcome and apologies for absence**

The Chair welcomed the participants.

**2. Adoption of agenda**

The agenda was adopted with slight changes.

**3. Declarations of interest**

In accordance with EFSA's Policy on Independence and Scientific Decision-Making Processes<sup>1</sup> and the Decision of the Executive Director implementing this Policy regarding Declarations of Interests<sup>2</sup>, EFSA screened the Annual Declaration of interest and the Specific Declaration of interest) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the Oral Declaration of interest at the beginning of this meeting.

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<sup>2</sup> <http://www.efsa.europa.eu/en/keydocs/docs/independencerules.pdf>

#### **4. Agreement of the minutes of the (14)<sup>th</sup> Working Group meeting held on 17/19 04 2013**

The minutes were agreed by written procedure on 3 May 2013 and published on the EFSA website on 13 May 2013.

#### **5. Comments from 2<sup>nd</sup> round of public consultation**

Comments from the 2<sup>nd</sup> round of public consultation were discussed and responses agreed within the WG.

#### **6. Exposure Contact Assessment**

A parallel contact exposure flowchart has been developed to tackle some of the comments received in the public consultation.

#### **7. Responses to some of the comments on the exposure chapter**

Some comments on the exposure sections were discussed and the responses agreed.

#### **8. Questions on statistics**

A statistician from EFSA joined the WG to answer some questions on statistic related to semi-field and field studies.

#### **9. Honey production as a measurement endpoint**

Following the feedback of Risk Managers on the inclusion of honey production as a measurement endpoint, it was decided not to consider honey production as an additional endpoint.

#### **10. Comparison of sensitivity between *Apis mellifera* and other species of bees**

The results of a meta-analysis on the available literature to compare the sensitivity of *Apis mellifera* and other species of bees was presented and discussed to evaluate which assessment factor to apply when honey bees are used as surrogate in the risk assessment.

#### **11. Bumble bees and Solitary bees appendix**

The appendix on the effect on bumble bees and solitary bees were discussed and agreed for finalisation.

#### **12. Honey dew assessment**

Due to the high uncertainty around honeydew assessment, a scheme will not be included in the GD.

#### **13. Risk assessment schemes**

The risk assessment schemes for spray application and seed treatment were discussed and agreed.

Parma, 20 March 2013

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 13<sup>th</sup> meeting (Webconference) of the EFSA Working Group on Bee Risk Assessment**

**Parma, 20 March 2013**

**EFSA / Pesticides**

**Participants**

- **Working Group Experts:**
  - Robert Luttik, Jos Boesten, Mark Clook, Fabio Sgolastra, Gérard Arnold
- **EFSA:**
  - Pesticides Unit: Franz Streissl, Csaba Szentes, Maria Arena

**1. Welcome and apologies for absence**

The Chair welcomed the participants.

**2. Adoption of agenda**

The agenda was adopted without changes.

**3. Declarations of interest**

In accordance with EFSA's Policy on Independence and Scientific Decision-Making Processes<sup>1</sup> and the Decision of the Executive Director implementing this Policy regarding Declarations of Interests<sup>2</sup>, EFSA screened the Annual Declaration of interest and the Specific Declaration of interest) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the Oral Declaration of interest at the beginning of this meeting.

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<sup>1</sup> <http://www.efsa.europa.eu/en/keydocs/docs/independencepolicy.pdf>

<sup>2</sup> <http://www.efsa.europa.eu/en/keydocs/docs/independencerules.pdf>

#### **4. Agreement of the minutes of the (13)<sup>th</sup> Working Group meeting held on 20 03 2013, WEBconference.**

The minutes were agreed by written procedure on 22 03 2013 and published on the EFSA website 03 04 2013.

#### **5. Scientific topic(s) for discussion ([2011-00418](#))**

##### **Sublethal effects**

An illustrative Risk Assessment scheme for sublethal effects will be added in an Appendix of the Guidance Document.

##### **Field studies-Exposure**

A parallel contact exposure flowchart will be included in the GD to tackle some of the comments received in the public consultation.

##### **Public consultations**

The closing date for the 2<sup>nd</sup> round of public consultation was the 18<sup>th</sup> February. An overview of the comments received was presented.

##### **RUDs**

Calculation of Shortcut Values (SV) of intake rates of pesticide residues via nectar and pollen and of pesticide residue concentrations in the nectar and pollen diet were presented and agreed.

##### **Bumblebees sensitivity**

The sensitivity of bumblebees compared to honeybees was discussed to evaluate the level of protection and the feasibility of using the honeybees endpoints as surrogate.

##### **Next meeting**

The WG will meet at EFSA premises in April, 17-19<sup>th</sup>

Parma, 25 February 2013

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 12<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 19/22 February 2013**

**EFSA / Pesticides**

**Agreed by the WG on 8<sup>th</sup> March 2012**

**Participants**

WG Experts	Gérard ARNOLD, Jos BOESTEN, Mark CLOOK, Robert LUTTIK, Fabio SGOLASTRA,
Hearing Experts	Klaus SWAROWSKY
Observers (eg. EC)	-
EFSA:	Franz STREISSEL, Csaba SZENTES, Maria ARENA (PESTICIDES)

**1. Welcome and apologies for absence**

The Chair welcomed the participants

**2. Declaration of interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI) and the Specific Declaration of interest (SDoI) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of the agenda**

The agenda was adopted with slight changes

**4. Discussions**

**Risk assessment schemes**

The risk assessment schemes for all the different species of bees (Honeybees, Bumblebees, solitary bees) were discussed for a final agreement.

### **Genetic Source of Bees**

Bees of the same race should be used for semi-field and field studies. Some methods will be recommended in the GD in respect to this point and appropriate argumentations will be added.

### **Dilution factor**

It was not enough information available to support the use of a dilution factor. It may be possible in future when more and consistent information will become available.

### **Exposure calculations (worked examples), shortcut-values**

The input data for the derivation of the Short Cut Values for honeybees adults and larvae both for spray applications and solid formulations were discussed and agreed.

### **Trigger values (in particular bumble bee trigger for reproductive effects)**

A new proposal for derivation of trigger values for bumble bees was presented and discussed. However, the information was not sufficient to change the original proposal.

### **Extended residue values**

One of the member of the WG presented other data on residues which could be included in the database currently included in the GD. However, the WG was not in favour due to the high uncertainty of the data.

### **Discussion of comments where group discussion is needed**

Comments received for the 1<sup>st</sup> public consultation were discussed.

### **Next meeting**

The WG will hold a webconference in March, 20<sup>th</sup>.



Parma, 31 January 2013

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 11<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 23/25 January 2013**

**EFSA / Pesticides**

**Agreed by the WG on 7<sup>th</sup> February 2013**

**Participants**

WG Experts	G�rard ARNOLD, Jos BOESTEN, Mark CLOOK, Robert LUTTIK (24-25), Fabio SGOLASTRA,
Hearing Experts	-
Observers (eg. EC)	-
EFSA:	Franz STREISSL, Csaba SZENTES, Maria ARENA, Chris LYTHGO (23 <sup>rd</sup> afternoon) (PESTICIDES), Agnes RORTAIS (EMRISK)

**1. Welcome and apologies for absence**

The Chair welcomed the participants

**2. Declaration of interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI) and the Specific Declaration of interest (SDoI) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of the agenda**

The agenda was adopted with slight changes

**4. Discussions**

**Update on timing of the publications / new planning**

The WG was informed about the new plan for the final publication of the GD. A 2<sup>nd</sup> round of public consultation on the sections developed after the 1<sup>st</sup> round and then not yet included in the GD will be launched in mid February. The final GD should be delivered by end of May.

### **Guttation Risk Assessment**

The section on the risk assessment from guttation was discussed. The content and the structure were discussed, agreed and finalised to be included in the 2<sup>nd</sup> round of public consultation.

### **Metabolites Risk Assessment**

The text on metabolites risk assessment was discussed and finalised.

### **Honeydew Assessment**

A Risk Assessment scheme for honey dew was developed and all the issues related to it (selection of crops, practicality of running the scheme, semi-field and field studies, read across) were discussed within the WG for agreement.

### **Discussion on Uncertainty Chapter**

The Uncertainty chapter was also discussed and finalised. Tables to be used as matrix and an example on how to carry on this analysis will be included in the section.

### **Derivation of shortcut values/equations**

Some possible ways of refining the shortcut values and the equations were discussed to address some comments received in the 1<sup>st</sup> round of public consultation on the conservativeness of the proposed trigger values.

### **New Risk Assessment schemes**

New Risk Assessment schemes were developed and the overall structure discussed to have a more user friendly GD

The other items included in the agenda for this meeting were not discussed due to time limitations.

### **Next meeting planning**

In the next meeting the whole GD has to be finalised and the answers to comments of the 1<sup>st</sup> round of public consultation discussed for agreement.

### **Next meeting**

The WG will meet in Parma in February, 19-22.

Parma, 11 December 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 10<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 5/7 December 2012**

**EFSA / Pesticides**

**Agreed by the WG on 22<sup>nd</sup> December 2012**

**Participants**

WG Experts	Gérard ARNOLD (6-7 <sup>th</sup> ), Jos BOESTEN, Mark CLOOK, Fabio SGOLASTRA
Hearing Experts	-
Observers (eg. EC)	-
EFSA:	Franz STREISSEL, Csaba SZENTES, Maria ARENA, J. Oriol MAGRANS (5 <sup>th</sup> morning) (Pesticides), Agnes Rortais (6 and 7/12 first half of the morning; EMRISK)

**1. Welcome and apologies for absence**

The Chair welcomed the participants. Apologies were received from Robert Luttk.

**2. Declaration of interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI) and the Specific Declaration of interest (SDoI) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of the agenda**

The agenda was adopted with slight changes

**4. Discussions**

**Update on timing of the publications / new planning**

The WG was informed that within EFSA it was discussed to deliver the final GD at the end of March and not to launch the second round of public consultation.

### **Discussion on Metabolites section**

The text on metabolites was discussed within the WG. It was decided to follow the approach as for the aquatic GD.

### **Guttation Risk Assessment**

The text on guttation Risk Assessment was discussed and the principles were agreed.

### **Discussion on Uncertainty Chapter**

The Uncertainty chapter wasn't discussed due to lack of time

### **List of bee attractive crops, Appendix E (honey dew and exposure), Appendix G**

The list of attractive crops as in Appendix G was updated according to the comments received in the public consultation. The list related to Honeydew as in Appendix E was also discussed.

### **New effects chapter and Annex**

The effect chapter and the related Annex were discussed and agreement was found on a number of issues highlighted during the public consultation.

### **Trigger values**

Several comments were received that the proposed trigger values are overly conservative. Options to refine the proposed trigger values without lowering the level of protection and achieving the protection goals were discussed.

### **Next meeting planning**

In the next meeting the whole GD has to be finalised and the answers to comments discussed.

## **5. Next meeting**

The WG will meet in Parma in January, 23-25

Parma, 19 November 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 9<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 14/16 November 2012**

**EFSA / Pesticides**

**Agreed by the WG on 28<sup>th</sup> November 2012**

**Participants**

WG Experts	Gérard ARNOLD, Jos BOESTEN, Mark CLOOK, Robert LUTTIK, Fabio SGOLASTRA
Hearing Experts	-
Observers (eg. EC)	-
EFSA:	Franz STREISSEL, Csaba SZENTES, Maria ARENA (Pesticides)

**1. Welcome and apologies for absence**

The Chair welcomed the participants.

**2. Declaration of interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI) and the Specific Declaration of interest (SDoI) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of the agenda**

The agenda was adopted with slight changes

**4. Discussions**

**Impact of prolongation of the public consultation on the timing of the publications / new planning / options**

Due to the prolongation of the public consultation and the huge number of comments received, the publication of the Guidance Document will be postponed. Two different options were discussed:

1. Second Round of public consultation on topics which were not included in the first one to be launched at the end of January and the final GD to be issued by May together with the technical report including comments of both consultations
2. Publication of the final GD and technical report on the outcome of the public consultation by February/March

The WG would be much in favour of the 1<sup>st</sup> option which will be discussed with the Commission.

#### **Validation of the Aupinel test**

The GD and in particular the Aupinel test was presented in a conference organised by the OECD. The Aupinel test will be ring tested and validated but only for the acute assessment and not for the chronic.

#### **Discussion of comments from public consultation**

The WG discussed the comments received during the public consultation and tried to find an agreement. Discussion points included the attractiveness of crops for nectar and pollen, the exposure assessment for solitary bees, etc.

#### **Planning for next meeting**

In the next meeting the new sections to be included in the 2<sup>nd</sup> round of public consultation to be launched in January, issues related to the comments received in the first public consultation and progress in answering them will be the main items of the agenda.

### **5. Next meetings date**

The WG will meet in Parma on 5/7 December

Parma, 18 October 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 8<sup>th</sup> meeting (webconference) of the EFSA Working Group on Bee Risk Assessment**

**Parma, 17 October 2012**

**EFSA / Pesticides**

**Agreed by the WG on 10<sup>th</sup> November 2012**

**Participants**

WG Experts	Gérard ARNOLD, Jos BOESTEN, Mark CLOOK, Robert LUTTIK, Fabio SGOLASTRA,
Hearing Experts	-
Observers (eg. EC)	-
EFSA:	Franz STREISSL, Csaba SZENTES, Maria ARENA, Domenica AUTERI (Pesticides)

**1. Welcome and apologies for absence**

The Chair welcomed the participants.

**2. Declaration of interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI) and the Specific Declaration of interest (SDoI) filled in by the experts invited for the present meeting. No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of the agenda**

The agenda was adopted without changes

**4. Discussions**

**Guttation Risk Assessment**

A draft risk assessment of guttation to bees was presented and discussed.

The acute assessment is included and the bee life stages to cover were discussed.

It was also agreed to include a screening step for chronic exposure since guttation droplet can be formed by certain crops for a long period of time and bees can be repeatedly exposed.

The exposure assessment for guttation droplets has to be developed for all crops at any time, unless more information is provided indicating that guttation doesn't occur in certain plants.

### **Surface Water Risk Assessment**

It was discussed and agreed that surface water is not of concern for bees because the regulatory acceptable concentration of highly toxic substances would be very low in surface water. However, a screening step assessment is proposed for substances which are particularly toxic to bees and not so much to aquatic organisms in particular aquatic insects.

### **Uncertainty**

A text has been drafted and it was discussed how to modify it to make it clearer. Some examples will be added.

### **Metabolites**

The WG discussed how to address metabolites in the risk assessment.

## **5. Next meeting date**

The WG will meet in Parma on 14/16 November



Parma, 5 October 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 7<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 3 October 2012**

**EFSA / Pesticides**

**Agreed by the WG on 15<sup>th</sup> October 2012**

**Participants**

WG Experts	G�rard ARNOLD, Jos BOESTEN, Mark CLOOK (webconference from 13.30), Robert LUTTIK, Fabio SGOLASTRA
Hearing Experts	Jens Pistorius
Observers (eg. EC)	-
EFSA:	Oriol-Jos� MAGRANS, Franz STREISSL, Csaba SZENTES, Maria ARENA (Pesticides)

**1. Welcome and apologies for absence**

The Chair welcomed the participants.

**2. Declaration of interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI) and the Specific Declaration of interest (SDoI) filled in by the experts invited for the present meeting. For further details on the outcome of the screening of the ADoI and SDoI, please refer to Annex I.

**3. Adoption of the agenda**

The agenda was adopted with slight changes

**4. Discussions**

**Discussion on exposure with a special focus on guttation**

One of the exposure routes of bees to pesticides could be guttation. For a better understanding of the guttation, its occurrence, the residues of pesticides in it and how bees can be affected, a collection and summary of regulatory studies and literature has been made within EFSA and presented to the WG.

From the literature available, it seems that the colony recover quickly, if affected by consumption of guttation droplets.

The hearing expert gave a presentation on all the studies his institute has done on guttation. The studies were done both on maize and winter oil seed as it is not possible to extrapolate from one to the other.

The working group will develop recommendations on how to conduct semi-field and field studies to investigate effects of guttation on bees.

### **Metabolites**

The WG discussed how to address metabolites in the risk assessment

### **Surface Water-puddles**

The WG discussed how puddles could be taken into account in the exposure assessment

### **DegT50 for succeeding crops**

The WG agreed on a DegT50 for succeeding crops of 5 days.

## **5. Next meetings date**

The WG will hold a webconference on 17 October

## Annex I

### **INTERESTS AND ACTIONS RESULTING FROM THE SCREENING OF ADOI OR SDOIs**

**CONFLICT of INTEREST:** In the ADol or in the SDol filled for the present meeting James Cresswell declared to be involved in a project funded by the private sector.

In accordance with EFSA's Policy on Declarations of Interests and Implementing documents thereof, and taking into account the specific matters discussed at the meeting in question, the interests above were deemed to represent a conflict of Interest for James Cresswell. Pursuant to EFSA's Procedure on Identifying and Handling Declarations of Interest, the said experts incur in the limitations identified under point VI that is the respective experts cannot attend the meeting.

Parma, 31 August 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 6<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 28-30 August 2012**

**EFSA / Pesticides**

**Agreed by the WG on 15<sup>th</sup> September.2012**

**Participants**

WG Experts	G�rard ARNOLD, Jos BOESTEN, Mark CLOOK, James CRESSWELL, Robert LUTTIK, Fabio SGOLASTRA,
Hearing Experts	-
Observers (eg. EC)	-
EFSA:	Csaba SZENTES, Franz STREISSEL, Maria ARENA (Pesticides), Olaf MUSBACH-SCHULZ (part of 29)

**1. Welcome and apologies for absence**

The Chair welcomed the participants. Apologies were received from Jens Pistorius.

**2. Declaration of interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI) and the Specific Declaration of interest (SDoI) filled in by the experts invited for the present meeting. For further details on the outcome of the screening of the ADoI and SDoI, please refer to Annex I.

**3. Adoption of the agenda**

The agenda was adopted without changes

**4. Discussions**

**Discussion on trigger values**

**a. which trigger to choose – depending on background mortality (lowest observed, 10<sup>th</sup> percentile or median)**

It was discussed and agreed to use for the trigger values calculation the lowest observed background mortality.

## **b. Methodology and calculation of LC50 trigger**

The methodology and calculation of the LC50 trigger based on Khoury model was discussed.

## **c. which trigger to choose for larvae?**

The trigger to choose for larvae was discussed and it was agreed to use the NOEC values as an endpoint.

## **d. Trigger value proposals for bumble bees and solitary bees**

Proposals for the trigger value for bumblebees and solitary bees were discussed and the WG agreed on how to derive it.

## **Exposure chapter**

### **a. Overview on the exposure routes including calculations - NOEC larvae instead NOAEL**

An overview of exposure routes including calculations was presented. Some points, as the exposure in soil, the values to use for larvae, sugar content in nectar were discussed and agreed.

### **b. Linking with the risk assessment schemes**

The link between effect and exposure was discussed.

### **c. What to do with incidents – they should be prevented?**

The incidents cannot be prevented with 100% certainty. The scheme focuses on the protection goals which are quite strict. Further work would be needed to include incidents in the risk assessment scheme.

## **Field studies**

### **1. One global test or several different sub-tests designed specifically to detect effects such as foraging behaviour, homing flight etc.**

It was agreed to include at least the homing flight behaviour as additional test. A protocol for it will be included in the GD.

### **2. Distance from the treated field**

It was agreed that the colonies in the global field test should be placed next to the treated field. A second study investigating homing flight behaviour should be conducted in addition.

### **3. Advice on statistics – we should give a number on the power to detect effects and if possible the type of statistical test. How to ensure a 90<sup>th</sup> percentile exposure in the field study.**

A statistician from EFSA took part to the meeting to give some advice a statistical issue on the experimental settings of a field study.

## **5. Next meetings date**

The next meeting will be hold in Parma on 3<sup>rd</sup> October

## Annex I

### **INTERESTS AND ACTIONS RESULTING FROM THE SCREENING OF ADOI OR SDOIs**

**CONFLICT of INTEREST:** In the ADol or in the SDol filled for the present meeting Jacoba Wassenberg declared to be member of the board of ICPBR.

In accordance with EFSA's Policy on Declarations of Interests and Implementing documents thereof, and taking into account the specific matters discussed at the meeting in question, the interests above were deemed to represent a conflict of Interest for Jacoba Wassenberg. Pursuant to EFSA's Procedure on Identifying and Handling Declarations of Interest, the said experts incur in the limitations identified under point III.B that is the respective experts cannot attend the meeting.

Parma, 11<sup>th</sup> July 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 5<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 3-5<sup>th</sup> July 2012**

**EFSA / Pesticides**

**Agreed by the WG on 19<sup>th</sup> July 2012**

**Participants**

WG Experts	Gérard ARNOLD, Jos BOESTEN, Mark CLOOK, James CRESSWELL, Robert LUTTIK, Fabio SGOLASTRA, Jacoba WASSENBERG
Hearing Experts	Jens PISTORIUS
Observers (eg. EC)	Marianna PAOLINO (EC)
EFSA:	Agnes RORTAIS (Emrisk), Csaba SZENTES, Franz STREISSEL, Klaus SWAROWSKY (Pesticides)

**1. Welcome and apologies**

The Chair welcomed the participants.

**2. Declaration of Interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI). No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of agenda**

The agenda was adopted with minor changes.

**4. Discussions**

**Feedback from risk manager working group on specific protection goals questions**

The working group was updated on the outcome of the meeting organised by COM with representatives .

### **Comments on the risk assessment scheme**

Different aspects of the risk assessment scheme for honey bees were discussed such as sugar content in nectar to calculate the exposure of foragers, RUD values for seed treatments, dust exposure.

The approaches on how to link the trigger values to the protection goals were discussed

During the meeting it became apparent that there are too many issues still open and that the Guidance Document will not be ready for public consultation over the summer period. Since this milestone in the project was not achieved the planning need revision.



Parma, 27<sup>th</sup> June 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 4<sup>th</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 27<sup>th</sup> June 2012**

**EFSA / Pesticides**

**Agreed by the WG on 7<sup>th</sup> July 2012**

**Participants**

WG Experts	Jos BOESTEN, Mark CLOOK, James CRESSWELL, Robert LUTTIK, Fabio SGOLASTRA
Hearing Experts	Jens PISTORIUS
Observers (eg. EC)	-
EFSA:	Csaba SZENTES, Franz STREISL, Klaus SWAROWSKY (Pesticides)

**1. Welcome and apologies**

The Chair welcomed the participants. Apologies were received from Gérard Arnold and Jacoba Wassenberg

**2. Declaration of Interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI). No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of agenda**

The agenda was adopted without changes.

**4. Discussions**

**Discussion on the structure of the risk assessment scheme**

It was discussed and agreed that the scheme should be split into spray applications and solid formulations. It was also discussed whether honeybees could be used as surrogates for

bumblebees. Possible options on how to link the trigger values with the specific protection goals were discussed.

### **Document on how to use and interpret field studies**

It was agreed that this should be part of the main document and that the more detailed guidance on the field studies should remain in the Appendix. The use of Phacelia in field trials was also discussed.

### **Calibration of HQ values**

An approach on how to link HQ values to mortality observed in specific laboratory experiments with worst case exposure assumptions was discussed.

### **Exposure assessment**

The document on exposure assessment was discussed. The need was identified to define the minimum size of foraging range of bees.

### **Guidance on bee health**

It was discussed whether we should give detailed guidance on bee health. Regular monitoring of diseases like Nosema, Varroa and different viruses should be conducted. A description will be included in the semi field and field part. It is in the interest of the applicant to monitor colonies because otherwise the necessary statistical power may not be achieved.

Parma, 13<sup>th</sup> June 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 3<sup>rd</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 12-13<sup>th</sup> June 2012**

**EFSA / Pesticides**

**Agreed by the WG on 16<sup>th</sup> June 2012**

**Participants**

WG Experts	Gérard ARNOLD, Jos BOESTEN, Mark CLOOK, James CRESSWELL, Robert LUTTIK, Fabio SGOLASTRA, Jacoba WASSENBERG
Hearing Experts	Jens PISTORIUS
Observers (eg. EC)	Marianna PAOLINO (EC)
EFSA:	Agnes RORTAIS (Emrisk), Domenica AUTERI (partly), Csaba SZENTES (partly), Franz STREISSEL, Klaus SWAROWSKY (Pesticides)

**1. Welcome and apologies**

The Chair welcomed the participants.

**2. Declaration of Interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI). No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of agenda**

The agenda was adopted without changes.

**4. Update of action points**

The list of actions from the last meeting was updated.

**5. Discussions**

**Risk manager consultation on specific protection goals**

The answers from risk managers from Member States on the specific protection goals were presented and discussed.

### **Structure of the Guidance Document**

The structure of the Guidance document was discussed and agreed.

The way forward with the chapters on exposure, trigger values, statistics and checklists for studies were discussed and agreed.

Parma, 15<sup>th</sup> May 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 2<sup>nd</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 15<sup>th</sup> May 2012**

**EFSA / Pesticides**

**Agreed by the WG on 16<sup>th</sup> June 2012**

**Participants**

WG Experts	Gérard ARNOLD, Jos BOESTEN, Mark CLOOK, James CRESSWELL, Robert LUTTIK, Fabio SGOLASTRA, Jacoba WASSENBERG
Hearing Experts	Jens PISTORIUS
Observers (eg. EC)	-
EFSA:	Agnes RORTAIS (Emrisk), Csaba SZENTES, Franz STREISSEL, Klaus SWAROWSKY (Pesticides)

**1. Welcome and apologies**

The Chair welcomed the participants.

**2. Declaration of Interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI). No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of agenda**

The agenda was adopted without changes.

**4. Discussions**

**Question to the risk managers**

The modelling of impacts on the colonies was discussed. It was agreed that the effects thresholds should be based on effects on colony size. Combinations of different magnitudes of effects and duration until a certain effect on colony size is reached were presented and

discussed. The options for protection goals to be presented to risk managers were agreed in the working group.

### **Exposure Protection goals**

Options for different exposure assessment goals were discussed and agreed. The input of risk managers in the SCoFCHAH will be asked which spatial units and what exposure percentiles should be chosen in the risk assessment. It was also acknowledged that an exact exposure percentile can only be calculated for certain exposure pathways but not for all because data in certain areas is lacking.

### **Honey production SPG**

It was discussed whether the proposed protection goals would also cover honey production. It was agreed by all working group members that honey production is covered by the proposed protection goals. Honey production is a very variable endpoint which depends on many factors and hence would lead to a lot of variation in tests which in turn would make it difficult to detect potential effects of pesticide treatments.

### **Impact analysis**

An analysis of how many substances fail the first tier and enter higher tier risk assessments cannot be done right now because new studies are suggested in the first tiers. It can only be done after some years of experience with the new risk assessment scheme and when the data are available.

Parma, 4<sup>th</sup> May 2012

**SCIENTIFIC PANEL ON PLANT PROTECTION PRODUCTS AND THEIR RESIDUES**

**Minutes of the 1<sup>st</sup> meeting of the EFSA Working Group on Bee Risk Assessment**

**Parma, 4<sup>th</sup> May 2012**

**EFSA / Pesticides**

**Agreed by the WG on 10<sup>th</sup> May 2012**

**Participants**

WG Experts	Jos BOESTEN, Mark CLOOK, James CRESSWELL, Robert LUTTIK, Fabio SGOLASTRA, Jacoba WASSENBERG
Hearing Experts	Jens PISTORIUS (via teleconference)
Observers (eg. EC)	-
EFSA:	Agnes RORTAIS (Emrisk), Domenica AUTERI, Franz STREISSEL Klaus SWAROWSKY (Pesticides)

**1. Welcome and apologies**

The Chair welcomed the participants. Apologies were received from Gérard ARNOLD.

**2. Declaration of Interest**

In accordance with EFSA's Policy on Declarations of Interests, EFSA screened the Annual Declaration of interest (ADoI). No conflicts of interests related to the issues discussed in this meeting have been identified during the screening process or at the beginning of this meeting.

**3. Adoption of agenda**

The agenda was adopted without changes.

**4. Discussions**

**Question to the risk managers**

The question to the risk managers on setting the specific protection goals for bees was discussed. It was considered particularly useful to model the impacts on the colonies. Combinations of different magnitudes of effects and duration until the point is reached where a colony becomes unstable could provide the basis for defining the specific protection goals.

### **Identification of issues left open from the opinion**

The proposed risk assessment schemes were discussed and open points identified. In particular issues related to systemic properties, dust exposure and exposure of bees via guttation were identified as points which need further action.

It was agreed that test protocols and check-lists should be developed for the Guidance Document. They could be added in the Appendix to the opinion.

The tasks were distributed within the working group and deadlines were agreed.

### **5. Miscellaneous**

Future meeting dates were agreed. It was considered necessary to have one meeting in autumn in addition to the planned meetings in order to have enough time to discuss the comments from the public consultation and to incorporate them in the Guidance Document.