



PPR/Pesticide Peer Review Unit

Minutes of the 19th meeting of the EFSA Working Group for the update of the EFSA Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 4 December 2020 (teleconference)

(Agreed on 5 January 2021)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Arianna Chiusolo (chair), Frederique Istace, Mathilde Colas



1. Welcome and apologies for absence

The Chair welcomed the participants. Apologies were received from Thierry Mercier (hearing expert).

2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac was invited to support the Working Group with his knowledge and experience on non-dietary exposure assessment for pesticides in a Competent Member State Authority. Specifically, he was requested to present his view/answer questions as needed by the Working Group.

5. Scientific topic(s) for discussion

Shiny calculator

The experts discussed the outcome from the performance of case studies.

Crop parameters

The experts discussed the possible revision of default value for DT50.

Human default parameters

The experts discussed the default values for body weight, inhalation rates and surface body areas as well as PPE protection factors.

6. Any Other Business

Not applicable

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



7. Next teleconference (Teams)

19 January 2021 (9:00 – 13:00)

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group.



PPR/Pesticide Peer Review Unit

Minutes of the 18th meeting of the EFSA Working Group for the update of the EFSA Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 6th November 2020 (teleconference)

(Agreed on 20th November 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Arianna Chiusolo (chair), Frederique Istace, Mathilde Colas



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to support the Working Group with their knowledge and experience on non-dietary exposure assessment for pesticides in Competent Member State Authorities. Specifically, they were requested to present their views/answer questions as needed by the Working Group.

5. Scientific topic(s) for discussion

Shiny calculator

The experts discussed the last revision of input parameters in the new calculator, and the performance of case studies.

Crop parameters

The experts discussed the possible revision of values for transfer coefficients, based on EU surveys, US data, and field studies for sugar beet and peaches.

6. Any Other Business

Not applicable

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



7. Next teleconference

4th December 2020 (9:00 – 13:00)

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group.

PPR / Pesticide Peer Review Unit

Minutes of the 17th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 1 October 2020 (teleconference)

(Agreed on 19 October 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit (PREV): Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Greenhouse model

The experts discussed the adaptation of the exposure estimates during trolley application for the combined use of hand-held application (in places of the greenhouses that are not accessible to trolleys).

New online calculator

The experts discussed the data entries for the exposure estimates related to outdoor uses, for the different types of formulation (including granular formulations) and for the different categories of the population included in the calculator (i.e. operator, worker, resident and bystander).

6. Any Other Business

Not applicable

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



7. Next teleconference (Teams)

6th November 2020 (9:00 – 13:00)

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group.

PPR / Pesticide Peer Review Unit

Minutes of the 16th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 17 September 2020 (teleconference)

(Agreed on 18 September 2020)

Participants

- **Working Group Members (ad hoc):**

Tamara Coja, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Not applicable

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit (PREV): Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas
Assessment Methodology Unit (AMU)(Framework contractor): Machteld Varewyck, Dagmar Bemelmans



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Scientific topic(s) for discussion

New online calculator

The experts confirmed the formulas to be implemented for operator exposure estimates in outdoor uses. Some additional tables to be implemented for re-entry in treated crops were discussed. Crop grouping for application equipment and transfer coefficients was also agreed.

5. Any Other Business

Not applicable

6. Next teleconference (Teams)

1st October 2020 (9:00 – 13:00) (full working group meeting)

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

PPR / Pesticide Peer Review Unit

Minutes of the 15th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 28 July 2020 (teleconference)

(Agreed on 3 August 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Greenhouse model

The experts discussed the final statistical assessment/analysis of the greenhouse model for operators, and the input in the main guidance.

Shiny calculator

The experts discussed the data entries and implementation of formulas in the online calculator for outdoor scenarios.

Transfer coefficients

The experts discussed the new analysis of available data from US for re-entry activities, in relationship with transfer coefficients.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



6. Any Other Business

Not applicable

7. Next teleconference (Teams)

3rd September August 2020 (9:00 – 13:00)

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group.

PPR / Pesticide Peer Review Unit

Minutes of the 14th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 16 July 2020, (teleconference)

(Agreed on 17 July 2020)

Participants

- **Working Group Members:**

Tamara Coja, Sabine Martin, Olivier Sanvido, Paul Hamey

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Mathilde Colas

Assessment and Methodology Unit: Jose Cortinas Abrahantes, Open Analytics (framework contract with AMU)



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Scientific topic(s) for discussion

The experts discussed the conversion of the formulations/equations from the EFSA calculator for outdoor uses into the Shiny webtool. These calculations were related to exposure predictions for operators and workers.

5. Any Other Business

Not applicable

6. Next teleconference (Teams)

3rd of September 2020 (for the discussion of the calculator)

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

PPR / Pesticide Peer Review Unit

Minutes of the 13th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 3 July 2020, (teleconference)

(Agreed on 6 July 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Greenhouse model

The experts discussed the approaches for resident/bystander for the greenhouse scenarios, and the input in the main guidance.

Crop parameters: DT50

The experts discussed the assessment of literature data related to dissipation rates (DT50).

6. Any Other Business

Not applicable.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



7. Next teleconference

28th July 2020 (9:00 – 13:00)

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group.

PPR / Pesticide Peer Review Unit

Minutes of the 12th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 30 June 2020, (teleconference)

(Agreed on 2 July 2020)

Participants

- **Working Group Members:**

Tamara Coja, Sabine Martin, Olivier Sanvido, Paul Hamey

- **European Commission and/or Member States representatives:**

Not Applicable.

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Mathilde Colas

Assessment and Methodology Unit: Jose Cortinas Abrahantes, Open Analytics (framework contract with AMU)



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Scientific topic(s) for discussion

Online calculator for Greenhouse model

The experts finalised the discussion on the reporting of results in the Shiny webtool for the operator exposure estimates for the greenhouse scenario.

The experts started the discussion of the conversion of the EFSA calculator for outdoor uses into the Shiny webtool (input parameters).

5. Any Other Business

Not applicable

6. Next teleconference

16th July 2020 (for the discussion of the calculator)

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

PPR / Pesticide Peer Review Unit

Minutes of the 11th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 15 June 2020 (teleconference)

(Agreed on 25 June 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Greenhouse model

The experts discussed the quality check and the section on methodology and data of the Annex B.

Worker and resident/bystander exposure for greenhouse scenarios was also considered.

6. Any Other Business

Not applicable

7. Next teleconference

For the calculator: 30th June 2020.

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference (03/07/2020) of the (full) Working Group.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

PPR / Pesticide Peer Review Unit

Minutes of the 10th meeting of the EFSA Working Group on preparation of Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 9 June 2020 (teleconference)

(Agreed on 22 June 2020)

Participants

- **Working Group Members:**

Tamara Coja, Sabine Martin, Olivier Sanvido, Paul Hamey

- **European Commission and/or Member States representatives:**

Not Applicable.

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas

Assessment and Methodology Unit: Jose Cortinas Abrahantes, Open Analytics (framework contract with AMU)



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Scientific topic(s) for discussion

Online calculator for Greenhouse model

The experts discussed the reporting of the results in the Shiny webtool for the operator exposure estimates for the greenhouse scenario.

5. Any Other Business

Not applicable

6. Next teleconference

For the calculator: 30th June 2020 (14:00 – 16:00)

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

PPR / Pesticide Peer Review Unit

Minutes of the 9th meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 27 May 2020, Parma (Italy)

(Agreed on 28 May 2020)

Participants

- **Working Group Members:**

Sabine Martin, Peter Craig

- **Hearing Experts:**

Hans Mielke

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas

Assessment and Methodology Unit: Jose Cortinas Abrahantes, Open Analytics (framework contract with AMU)



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr. Hans Mielke was invited to present his views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Online calculator for Greenhouse model

The experts discussed the statistical and technical aspects of the transfer of the current calculator (EFSA calculator in Excel format) into an online tool (Shiny webtool).

6. Any Other Business

Not applicable

7. Next teleconference

For the calculator: 9th June 2020

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group (except in relationship with PPE) on the 3rd of July 2020.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

PPR / Pesticide Peer Review Unit

Minutes of the 8th meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 18 May 2020 (teleconference)

(Agreed on 27 May 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas



1. Welcome and apologies for absence

The Chair welcomed the participants. Paul Hamey and Thierry Mercier could not participate.

2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac was invited to present his views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Greenhouse model

The experts discussed the quality check and the section on methodology and data of the Annex B. Worker and resident/bystander for greenhouse scenarios were also considered.

Crop parameters: DT50

The experts discussed the assessment of literature data related to dissipation rates (DT50).

6. Any Other Business

Not applicable

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



7. Next teleconference (Teams)

15th June 2020 (9:00 – 13:00)

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group.

PPR / Pesticide Peer Review Unit

Minutes of the 7th meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 24 April 2020 (teleconference)

(Agreed on 13 May 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Peer Review Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas
Assessment and Methodology Unit: Jose Cortinas Abrahantes (partially)



1. Welcome and apologies for absence

This meeting, originally scheduled as a physical meeting, was converted into a teleconference to avoid traveling to EFSA in line with the measures established to reduce the risk of coronavirus infection.

The Chair welcomed the participants. Paul Hamey could not participate.

2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Online calculator for Greenhouse model

The experts discussed the new version of the online calculator.

Greenhouse model

The experts discussed the quality check, the section on methodology and data, and the statistical assessment.

6. Any Other Business

Not applicable

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



7. Next teleconference (Teams)

18th May 2020

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group (except in relationship with PPE).

PPR / Pesticide Peer Review Unit

Minutes of the 6th meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 3 April 2020 (teleconference)

(Agreed on 21 April 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticides Unit: Frederique Istace (chair), Arianna Chiusolo, Mathilde Colas

AMU Unit: Jose Cortinas Abrahantes (partially)



1. Welcome and apologies for absence

The Chair welcomed the participants. Paul Hamey could not participate.

2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr. Abril Muñoz Isaac and Mr. Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Greenhouse model

The experts discussed the draft Annex to the guidance containing the assessment of the greenhouse data.

Worker/Crop parameters (DFR, DT50)

The experts discussed an assessment of additional DFR studies identified during the BROWSE project and the preparation of the pilot study for analysis of DT50 values from the literature.

New calculator – Shiny webtool

The new version of the online calculator was discussed.

6. Any Other Business

Not applicable.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



7. Next teleconference (Teams)

24th April 2020

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next teleconference/meeting of the Working Group (except in relationship with PPE).

PPR / Pesticide Peer Review Unit

Minutes of the 5th meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 3-5 February 2020, Parma (Italy)

(Agreed on 13th February 2020)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticides Unit: Frederique Istace (chair), Arianna Chiusolo (report writer), Mathilde Colas (report writer)

AMU Unit: Jose Cortinas Abrahantes (only 5th Feb)



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Greenhouse model

The experts discussed the draft Annex to the guidance containing the assessment of the greenhouse data.

BROV project

Based on recent availability of the Report for re-entry workers only, a written commenting period will be organised to collect a first feedback from the experts (before a discussion).

Worker/Crop parameters (DFR, TC, DT50)

A first assessment of available DFR data from the literature was discussed. On this basis, the experts agreed that the default initial DFR value of 3 could not be modified.

Further considerations should still be given to data on pesticide dissipation rates and transfer coefficients.

The assessment of additional data from Open Call was also briefly discussed. It was agreed that an updated list of re-entry activities should be included in the updated guidance.

Criteria/recommendations for assessment of field studies were also discussed.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



Default values

A first overview of default values currently applied in the field of Biocides was presented and discussed. Further considerations should also be given to other international approaches.

Bystanders/Residents

An overview of air monitoring data in Belgium was presented and discussed.

The experts agreed that the OPS model should be further considered with the support of an hearing expert (Erik Van den Berg) during the next physical meeting (30 Sept-2 Oct 2020).

New calculator – Shiny webtool

The new version of the online calculator was discussed.

6. Any Other Business:

Not applicable

7. Next meeting(s)

30th September 2020 – 02nd October 2020.

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next meeting of the Working Group (except in relationship with PPE).

PPR / Pesticide Peer Review Unit

Minutes of the 4th meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 28-30 October 2019, Parma (Italy)

(Agreed on 19th November 2019)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticide Unit: Frederique Istace (chair), Arianna Chiusolo (report writer)



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac and Mr Mercier Thierry were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Draft update EFSA guidance

Data from the Open Call were discussed for their possible inclusion in the updated guidance. The experts also agreed to give further considerations to the updates of the BREAM approaches and to some results of the BROWSE activities.

DFR/TC data

The experts agreed that recommendations should be given on how DFR (dislodgeable foliar residues) studies should be conducted and interpreted if possible. Further considerations should also be given to the available data in order to identify if revised default DFR values can be established.

New calculator – Shiny webtool

The new version of the online calculator was discussed, and further proposals for data entry were prepared for the contractor (Open Analytics).

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



Greenhouse model

The revised report for the Greenhouse scenario was discussed by the experts. It was agreed that a qualitative assessment of the uncertainties should also be included.

6. Any Other Business:

Not applicable

7. Next meeting(s)

03rd – 4th February 2020.

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next meeting of the Working Group (except in relationship with PPE).

PPR / Pesticide Peer Review Unit

Minutes of the 3rd meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 03-06 June 2019, Parma (Italy)

(Agreed on 27th June 2019)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Pieter Spanhoge, Rianda Gerritsen-Ebben, Clare Butler Ellis

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticides Unit: Frederique Istace (chair)



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Abril Muñoz Isaac, Mr Pieter Spanhoge, Ms Rianda Gerritsen-Ebben and Ms Clare Butler Ellis were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

Day 1 (03/06) – Topic 3: BROWSE project (WP 2)

Pieter Spanhoge presented the results of the second work package completed during the BROWSE project (EU 7th Framework Programme), related to the worker re-entry models for non-dietary exposure estimates, as developed in the context of this project. Questions and comments provided in advance by the Working Group were also extensively discussed.

Day 2 (04/06) – Topic 4: BROWSE project (WP 1)

Rianda Gerritsen-Ebben presented the results of the first work package completed during the BROWSE project (EU 7th Framework Programme), related to the operator models for non-dietary exposure estimates, as developed in the context of this project. Questions and comments provided in advance by the Working Group were also extensively discussed.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



Day 3 (05/06) – Topic 5: BROWSE project (WP 3)

Clare Butler Ellis presented the results of the third work package completed during the BROWSE project (EU 7th Framework Programme), related to the resident and bystander models for non-dietary exposure estimates, as developed in the context of this project. Questions and comments provided in advance by the Working Group were also extensively discussed.

Day 3 (05/06) – BROWSE follow up activities

- R. Gerritsen-Ebben presented the results of the OBO project.
- C. Butler Ellis presented the BREAM 2 data.

Day 4 (06/06) – Greenhouse model

Additional comments on the updated Greenhouse model were discussed.

Day 4 (06/06) – Shiny webtool

The first proposal from Open Analytics for the automated online calculator was discussed by the experts. Further feedback will be given to Open Analytics after additional considerations by the Working Group members.

6. Any Other Business:

Not applicable

7. Next meeting(s)

28th – 30th October 2019.

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the different topics during the next meeting of the Working Group (except in relationship with PPE).

PPR / Pesticide Peer Review Unit

Minutes of the 1st teleconference of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 17 May 2019

Teleconference meeting on R4EU

EFSA / Open Analytics

Participants

- **Working Group Members:**

Tamara Coja (AGES)

Sabine Martin (BfR)

Olivier Sanvido (SECO)

- **Open Analytics:**

Machteld Varewyck

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Frederique Istace, Jose Cortiñas Abrahantes



1. Demo of OPEX application

- MV gives a short demo of the current shiny application on OPEX models for operator.
- The demo version is made available to all participants on efsa.openanalytics.eu/app/opex.

2. Data Entry

- Input fields for absorption: Let user enter numeric instead of a slider. The values can differ for each population group (operator, worker, resident and bystander)
- Default values should not be adjustable by the user. If at some point new default values are available, they are updated outside the tool.

3. Risk Estimation Models

- There might be some issues when including the data instead of the model coefficients. This will be further discussed during the next meeting.
- Olivier Sanvido explains most formulas are listed in the BfR report, but not all.

4. Save Entered Data

- A report with all results and entered input values should be available for download.
- The entered data should be made available for download and upload for later use in the application. Don't save the entered data in database due to confidentiality issues. If needed, the entered data can be shared with other users by sending the downloaded file.

5. List of Crops

Olivier Sanvido shared a list of crops to be used as implemented in the latest EFSA calculator. Categorization results in the same estimated exposure per crop group.

6. Results to be Shown

- Summary should report PPE per crop instead of per substance.
- PPE in order of most convenient to wear: coverall, gloves, head protection, respiratory protection.
- Different PPE for Mixing/Loading and Application can be used. For the former more PPE is often used (because higher exposure during shorter time period).



- It is suggested to calculate the exposure for all combinations as listed in the latest EFSA calculator (as presented by Olivier).

7. Test Files

Currently there is no test file available. It will be investigated whether/how such file can be created.

8. Next meeting

Next meeting is planned on June 6th, 2019. In the meantime the tool will be explored by Olivier Sanvido, Sabine Martin and Tamara Coja, written feedback will be shared.

PPR / Pesticide Peer Review Unit

Minutes of the 2nd meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 06-08 March 2019, Parma (Italy)

(Agreed on 25 March 2019)

Participants

- **Working Group Members:**

Agathi Charistou, Tamara Coja, Peter Craig, Paul Hamey, Sabine Martin, Olivier Sanvido

- **Hearing Experts:**

Isaac Abril Muñoz, Thierry Mercier

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticides Unit: Frederique Istace (chair), Federica Crivellente



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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Expert (s)

Mr Mercier Thierry and Mr Abril Muñoz Isaac were invited to present their views for the different scientific topics under discussion during the present meeting.

5. Scientific topic(s) for discussion

5.1. Open Call – part 1

The results of the Open Call – part 1 (new field studies for operators) were discussed by the experts. It was agreed that draft quality check criteria for the assessment of new field studies should be further developed.

5.2. Greenhouse model (AOEM)

The revised Greenhouse model (AOEM) including new data and refinements was presented and discussed. It was agreed that further validation for an interim update of the EFSA guidance with the greenhouse scenario should be provided, and a public consultation should also be organised.

5.3. BROV project

An update of the first part of the BROV project (for re-entry workers) was presented and discussed.

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



5.4. Seed treatment

The activities of the Seed Tropex Task Force were discussed. It was agreed that the different steps of model development should be fully validated by the EFSA working group, pending full availability of the supporting data in EFSA.

5.5. Amateur's uses

Since the data on amateurs and non-professional uses were not shared during the Open Call, another strategy will have to be implemented for future considerations.

5.6. Open Call – part 2

The discussion of the comments submitted during the Open Call was initiated, and some of them could already be addressed. Recommendations could already be identified for the following update of the EFSA Guidance.

5.7. BROWSE

The tasks within the working group were organised with the aim to provide comments / questions to the Hearing Experts of the BROWSE project in advance of the next meeting.

5.8. Update of the calculator

It was clarified that the work of the contractor (Open Analytics) for developing a user-friendly webtool should start soon, and a kick-off meeting will be organised soon. The experts expressed their wishes for the relevant functionalities of this calculator.

6. Any Other Business:

Not applicable

7. Next meeting(s)

June 3rd – 6th June 2019.

The experts agreed to invite the hearing experts Isaac Abril Muñoz and Thierry Mercier for the discussions of the BROWSE project (except in relationship with PPE) and of the Greenhouse model development.

Pesticides Unit

Minutes of the 1st meeting of the EFSA Working Group on preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment of plant protection products (OPEX 2)

Held on 10-11 December 2018, Parma (Italy)

(Agreed on 19 December 2018)

Participants

- **Working Group Members:**

Charistou Agathi, Coja Tamara, Craig Peter, Hamey Paul, Martin Sabine, Sanvido Olivier

- **Hearing Experts:**

Abril Muñoz Isaac, Mercier Thierry

- **European Commission and/or Member States representatives:**

Not Applicable

- **EFSA:**

Pesticides Unit: Frederique Istace (chair), Federica Crivellente, Iris Mangas (December 10th only)

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 of Working Groups members

In accordance with EFSA's Policy on Independence¹ and the Decision of the Executive Director on Competing Interest Management², EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Hearing Experts

Mr Mercier Thierry and Mr Abril Muñoz Isaac were invited to present their views for the topic 5.2 of the present meeting.

5. Scientific topics for discussion

5.1. Preparation of a Guidance on the assessment of exposure of operators, workers, residents and bystanders in risk assessment for plant protection products (OPEX 2) - [EFSA-Q-2018-00274](#) – presentation of the mandate

The European Commission mandate to update the Guidance was presented and discussed. Some of the available automated exposure calculators were presented and possible future actions to develop/improve these tools were discussed.

5.2. Presentation of "new" data and possible refinements of existing approaches

¹ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

The WG discussed how to assess and consider new data in the updated Guidance document on the basis also of the outcome of the call launched by EFSA and closed on December 10th.

The ongoing activities in regards to the BROWSE project were discussed and the WG agreed to invite key persons involved in such project as Hearing Experts in one of the following meetings.

6. Any Other Business

Not Applicable

7. Next meeting

6-8 March 2019