



Report of the Meeting of the Technical Panel on Pest Free Areas and Systems Approaches for Fruit Flies, Vienna, Austria, 3-7 December 2007

1. Introduction

The technical panel (TP) on pest free areas and systems approaches for fruit flies (TPFF) was welcomed by the host of the meeting (Mr Hendrichs of the Joint FAO/IAEA Division), the IPPC Secretariat (Ms Johnston) and the TPFF Steward (Mr Ribeiro e Silva).

The TP noted that this meeting had originally been cancelled and was being held thanks to the support of the Joint FAO/IAEA Division. Mr Hendrichs indicated that in view of its mandate and expertise in fruit flies, the Joint Division was interested in being further involved in fruit fly pre- and post-harvest management issues, as determined relevant by the TPFF and others. He also informed the TPFF of the Joint Division's interest for continued support of the TPFF.

The new member of the TP (Mr Pereira) and the two invited experts (Mr Hoffman and Mr Wu) were welcomed to the meeting. It was noted that Mr Fernandes and Mr Venter were unable to attend.

The IPPC Secretariat gave a brief overview of the IPPC and standard setting activities, and explained the roles and functions of participants in the TPFF and expectations for the meeting.

The TPFF elected Mr Gonzalez as chair and Mr Duthie as rapporteur. The agenda was adopted (Annex 1) and the documents list was reviewed (Annex 2).

2. Decisions of other bodies affecting the TPFF

The IPPC Secretariat and TPFF Steward provided updates on the outcomes of recent meetings, such as the Commission on Phytosanitary Measures (CPM), Focus Group (FG), Standards Committee (SC) and other TPs.

The TPFF was informed that the CPM had agreed that TPs should not submit any new topics for their work programme through the SC until the CPM had reviewed the results of the FG. If the TP wanted to add new topics to their work programme it would have to wait for the outcome of the CPM discussions in April 2008.

It was noted that the SC had approved 14 irradiation treatments for member consultation, 6 of which related to fruit flies. The SC had also recently approved the draft ISPM *Establishment of areas of low pest prevalence for fruit flies (Tephritidae)* for submission to the CPM for adoption. TP members were reminded that they could submit comments on the treatments and the draft ISPM through their IPPC contact points.

The SC discussed TP membership at their meeting in November 2007, and indicated that an overlap of at least one meeting would be desirable between a new member arriving and an old member leaving a TP. It was recognized that it was not always possible to give advance notice, but for purposes of continuity it was encouraged that outgoing TP members inform the IPPC Secretariat as early as possible of their departure from the TP.

The TP noted that their suggestion to add a topic to the work programme of the Technical Panel on Diagnostic Protocols (TPDP) on the use of molecular methods for determining the Mediterranean fruit fly and Oriental fruit fly haplotypes was returned with a request for more information on the necessity of producing an international standard on this subject. The TPFF discussed this and felt that there is insufficient scientific data at this time to develop this topic further and that procedures for the determination of these haplotypes needed further work and validation. The TPFF agreed to withdraw the suggestion.

The TP was informed of the TPDP's decision on the use of brand names in standards, which indicated that brand names for equipment, chemicals, etc. should only be used if it could not be interchanged with other brands to receive the same results. However, if the brand was interchangeable with others, then the options

should be given with an indication that they may give the same results and that the results should be validated. It was noted that this would have implications for the draft ISPM on trapping procedures.

3. Review of 2006-2007 work programme

The TP reviewed their 2006-2007 work programme and noted that the tasks outlined had been completed. It was noted that two of the specifications developed at their last meeting on suppression and eradication of fruit flies and establishment of pest free places of production and pest free production sites for fruit flies had been adopted, so work on the development of one of those ISPMs could begin at their next meeting.

4. Draft ISPM: *Systems approaches for fruit flies (FF-SA)*

The TP did not discuss the FF-SA draft. The TP was informed that discussion by the SC on the draft was postponed until their meeting in May 2008.

5. Draft specification: *Host susceptibility*

Mr Duthie submitted a draft of the specification for host susceptibility, which was based on that for the Asia and Pacific Plant Protection Commission (APPPC) regional standard on the subject. The TP discussed and commented on the specification and noted that the subject was very important for international trade. Mr Duthie redrafted the specification based on the TP's comments and it was again presented.

The TP discussed in detail the terms *host susceptibility* and *non-host*, and debated which would be most appropriate to use. It was noted that neither are defined in ISPM No. 5. The TP decided to use *host susceptibility* for the specification, as this term is less specific. It was further suggested that the TP consider developing guidance on the terms *host* and *non-host* to aid in their understanding.

The TP redrafted the specification and agreed that it be submitted to the SC for their review and approval for member consultation.

6. New topics for FF ISPMs

The TP reviewed their work programme and discussed additional topics that could be developed as ISPMs in the future to help complete the suite of FF standards. The TPF agreed to the following:

- Revision of annex 1 of ISPM No. 26 (Guidelines on corrective action plans) to provide more information on handling outbreaks in pest free areas
- Guidelines for a regional response to the introduction of exotic FFs.

The TP was reminded of the CPM-2 decision to not have any new topics for standards be added to the work programmes of TPs through the Standards Committee, but were informed that at any session of the CPM countries could make suggestions for addition of topics from the floor. It was agreed that Mr Ribeiro e Silva and Mr Gonzalez would coordinate the effort to get countries to support the addition of these topics to the work programme at the CPM meeting in April 2008.

7. Draft annex to ISPM No. 26: *Trapping procedures for fruit flies (Tephritidae)*

The steward (Mr Enkerlin) presented the FAO/IAEA publication *Trapping guidelines for area-wide fruit fly programmes*, on which the draft ISPM would be based. It was noted that the document will require updating with regards to new trapping procedures, new species assuming pest status and quality assurance.

The steward outlined the tasks for the TPF given in Specification No. 35. Currently, the trapping procedures are provided for as an appendix to ISPM No. 26 (*Establishment of pest free areas for fruit flies (Tephritidae)*), and the steward of the TP recalled that the original proposal was to have the procedures, once developed, as an annex. He indicated that it was agreed to refer to the IAEA guidelines for trapping procedures in an appendix until the new annex was produced. The steward sought consensus that the manual be presented as an annex to ISPM No. 26. The TPF agreed, indicating that although trapping procedures also relate to other fruit fly standards, such as the drafts on areas of low pest prevalence (ALPP) and systems approaches (SA), it would make the most sense to present it as an annex to ISPM No. 26 and the other standards could refer to it. In addition, including the information as an annex could make it easier to update as new information and technology becomes available. The TP steward indicated that the information in the trapping annex should follow section 2.2.2.1 (Trapping procedures) of ISPM No. 26.

The TP discussed the level of detail that was needed for the annex, as the FAO/IAEA guidelines were often quite detailed. It was recognized that those guidelines had a different status than an annex to an ISPM and so were able to contain information that ISPMs usually did not. The TP agreed that it was important to find a balance in the level of detail, giving enough guidance for both those developing and carrying out trapping programmes. Although references are not usually included in ISPMs, the TP agreed that including a reference section with the most pertinent references would greatly facilitate those who needed information in addition to what was included in the annex and for countries to evaluate the information given and set up and implement a national trapping programme.

The TP agreed that the trap descriptions were very important to maintain in the text. The use of traps is not always intuitive and instructions for their use are often not readily available. Traps can also be used in different ways depending on the attractant used, field conditions and target flies, and each trap or trap type has properties specific to it only. Deciding which traps to use and ensuring they are used properly are an integral part of any trapping programme, so sufficient detail on the traps themselves and their trapping procedures was needed.

The TP was also in agreement that including a photograph of each trap was essential. It can be very difficult to adequately describe traps without an illustration. The idea of including diagrams instead of photographs, such as is done for diagnostic protocols, was discussed but it was agreed that this would not be sufficient. As this annex will be guidance for countries that have difficulties in finding appropriate bibliographic references, the TPF agreed that including photographs would be the most suitable way to facilitate understanding in conjunction with the trap descriptions.

Additional points discussed regarding the text:

- Some parts of the FAO/IAEA guidelines were not necessary to include in an annex of an ISPM, such as the preamble, background, list of contributors, etc.
- It was desirable to move the information in the appendices of the FAO/IAEA guidelines into the main body of the text.
- Specific descriptions of traps should be ordered alphabetically to avoid the order of traps implying a preference for one trap over another.
- Active ingredients should be used instead of using of commercial or trade names.

The TPF agreed to split into three groups, and each group was assigned specific sections of the manual to work on. The steward of the TP noted that as the South African member was unable to attend, members should be sure to also consider African conditions when reviewing the manual.

Report of Group 1

Group 1 was responsible for revising the following chapters of the FAO/IAEA guidelines:

- background
- trapping survey objectives
- trapping applications
- trapping scenarios
- trapping and quarantine security.

Group 1 started discussing the trapping surveillance and fruit fly control situations in order to revise the table 1 of section IV (Trapping scenarios) of the FAO/IAEA guidelines. Group 1 proposed a modified table in order to have different scenarios for FF trapping situations. Group 1 also proposed a revision for the structure of these chapters revised in order to have more harmonized text with IPPC documents, in particular, ISPM No. 26.

Group 1 decided to not have a delimiting survey for situations where the ALPP was applicable in practice. Group 1 also suggested having more detailed information in the case of delimiting surveys in ISPM No. 26, corrective action plan. This should lead to have a revision of the annex 1 of this ISPM.

Report of Group 2

Trap descriptions were reviewed, and commercial names and references were removed from these sections. Improved trap images were provided and inserted into the text where required. Text describing new lures and trap types were inserted where required. The table listing species of economic concern was reviewed and additional species added.

The list of lures and attractants (appendices 2 and 6) were reviewed. The group noted the duplication between appendices 2 and 6 and recommended merging of the two appendices into one table. The group noted that field longevity for liquid methyl-eugenol (ME) and cuelure (CUE) had been underestimated and recommended extension of these periods to a minimum of 4-8 weeks.

Trapping survey density tables were reviewed. Tables were combined to represent genera rather than species, where possible. Densities were reviewed and new trap types and lures were added to the lists of various genera. Some species specific information was retained where trap types, densities or lures varied from other species or a single species from the genera was considered to be a pest of economic importance. Trapping procedures was also reviewed and text changed as appropriate.

Report of Group 3

Group 3 developed two new sections on quality supervision (quality control) and delimiting surveys.

Other points discussed:

- *Buffer zone* as defined in ISPM No. 5 was not applicable in the case of delimiting surveys so the phrase *surrounding zone* was used. The definition for *buffer zone* is for an area that is under control, whereas for delimiting surveys, the area is only under control if a pest is found.
- The requirement for three life cycles past the last fly find for delimiting surveys was retained, however text was added indicating that one to two generations may be applied in some special situations depending on the scientific information available.
- Table 2 lists major species of economic importance, some of which are considered to be part of the *Bactrocera dorsalis* complex, such as *B. papayae* and *B. dorsalis*. The taxonomic status of these species needs to be defined given the relevance that the correct identification of these species has in international trade. It was agreed that this was a complicated issue that would need further discussion. It was thought that the expertise needed to sort out the issue was already available in the TPF, so the TP recommended that the issue be discussed in more detail at their next meeting.

The TPF outlined some additional points for the steward to review and harmonize in the text. The steward agreed to send the draft back to the TPF by 14 December 2007. The TPF will review it and send comments back to the steward by 21 December 2007. The steward will then incorporate their comments and submit the draft to the IPPC Secretariat for submission to the SC for discussion at their meeting in May 2008. The TP was informed that the draft could be sent for member consultation in June 2008 if approved by the SC.

8. Format and publication of FF standards

The TP discussed the format and publication of FF standards, and how this would be best done. It was agreed that a long term vision for the structure and organization of the standards would be needed, including which topics should be developed as standards, which standards should be stand-alone and which should be annexes, and to which standards the annexes should be attached.

The TP recommended that there should be three main stand-alone fruit fly ISPMs:

- 1) Establishment of pest free areas for fruit flies (Tephritidae) - ISPM No. 26
- 2) Establishment of areas of low pest prevalence for fruit flies (Tephritidae) - to be presented to CPM-3 for adoption
- 3) Systems approach for fruit flies - currently in draft form.

Any other standard, including the draft standard on fruit fly trapping, and future standards, such as Establishment of pest free places of production and pest free production sites and Suppression and

eradication procedures for fruit flies, should be integrated into the three stand-alone standards as an annex, appendix or supplement.

As for the publication of FF ISPMs, the TP agreed that a book containing just the FF standards should be published separately from the book of all ISPMs. This would greatly assist those using the standards in the field. It was suggested that the IPPC Secretariat and Joint FAO/IAEA Division investigate the possibility of jointly publishing this compendium of FF standards.

The TP agreed that the format and publication of FF ISPMs needed additional reflection and discussion and decided to put it on the agenda for a more detailed discussion at their next meeting.

9. 2008 work programme and next meeting

The TP agreed a work programme for 2008 (Annex 3). The TPDF decided that the tentative dates for their next meeting would be 1-5 September 2008, and the main topic of discussion would be pest free places of production and pest free production sites for fruit flies (Specification No. 41). It was thought that this could be developed as an annex to ISPM No. 26.

The TPDF discussed some documents that would be useful for the discussion at their next meeting:

- Guideline for the establishment, maintenance and verification of fruit fly free areas in North America. This regional standard includes fruit fly free places of production and production sites.
- Australian document on tomatoes to the USA (Duthie)
- Texas Lower Rio Grande Valley Mexican Fruit Fly, *Anastrepha ludens* (Loew), Protocol 2006 – 2007 Harvest Season (Zavala)
- Israel tomatoes (Malavasi).

In addition to discussing the format and publication of FF standards at their next meeting, the TP also expressed interest in discussing the development of programmes or mechanisms for the implementation of FF standards on a national level. Members are invited to send discussion papers to the IPPC Secretariat.

10. Requests and recommendations

The following requests and recommendations are proposed to the SC and several other technical panels.

The TPDF requested the Standards Committee to:

- *consider* the draft ISPMs on FF-trapping and FF-systems approach at their next meeting
- *consider* the TPDF proposal to have a book of FF standards published separately from and in addition to the book of ISPMs (see section 8)
- *approve* new topics for FF standards for the work programme of the TPDF:
 - revision of annex 1 of ISPM No. 26 (Guidelines on corrective action plans) to provide more information on handling outbreaks in pest free areas
 - guidelines for a regional response to the introduction of exotic FFs.

The TPDF requested the TP on diagnostic protocols to:

- *consider* the suggestion made by the TPDF in 2006 for the development of a diagnostic protocol on the use of molecular methods for determining the Mediterranean fruit fly and Oriental fruit fly haplotypes only when further information on the subject is available and at the request of the TPDF.

The TPDF requested the TP on the *Glossary of phytosanitary terms* to:

- *consider* the proposed definitions for the following terms:

Core area (for trapping)	Defined area at the centre of a delimiting trapping grid or radius, where there was an incursion into an area free of that pest, and where the trapping density is usually higher compared to the periphery.
Reason for definition:	This is an important concept relating to the implementation of delimiting surveys.
Exclusion	The application of phytosanitary measures to prevent the introduction of a pest into an area where the pest is absent.

Reason for definition: The idea of taking action to keep a pest out of an area is currently not defined by any Glossary terms. It is recognized that this is similar to containment but from the opposite point of view
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Marginal area	A non-commercial host area that poses risk to the commercial production or phytosanitary status of an area.
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Reason for definition: Need to have a term referring to nearby or surrounding host areas that are not under commercial cultivation, such as wild, alternate or abandoned host areas, and from where a pest can move into the commercial host areas.
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11. Close

The members of the TPF and the IPPC Secretariat thanked the hosts from the Joint FAO/IAEA Division for organizing and facilitating the meeting. The chair thanked the members for their great contribution and closed the meeting.

AGENDA**Technical panel on pest free areas and areas of low pest prevalence for fruit flies (TPFF)**

3-7 December 2007

Vienna, Austria

IAEA Headquarters

Monday, 3 December, 2007	
<u>SESSION 1: Introduction</u>	
09.00-09.30	Welcome and introduction
09.30-09.45	Administrative details and local arrangements
09.45-10.15	COFFEE
<u>SESSION 2: Meeting set-up</u>	
10.15-10.45	Background to TPFF, roles and expectations from the meeting
10.45-11.00	Selection of chair and rapporteur
<u>SESSION 3: Decisions affecting the TPFF</u>	
11.00-11:15	Commission on Phytosanitary Measures meeting (March 2007)
11.15-11.30	Standards Committee meetings (November 2006, May 2007 and November 2007)
11.30-12.00	Other technical panels (TPPT-irradiation treatments; TPDP-Anastrepha, TPG-primary and secondary hosts, other definitions)
12.00-13.00	LUNCH
<u>SESSION 4: Review of 2006-2007 work programme</u>	
13.00-13.30	Review of 2006 meeting report and work programme
13.30-14.00	Specification for host susceptibility
14.00-14.30	New topics for FF ISPMs
14.30-15.00	Discussion (Section 4)
15.00-15.30	COFFEE
<u>SESSION 5: Trapping procedures</u>	
15.30-17.30	Trapping procedures (specification 35, production of draft standard). Introduction and formation of working groups
Tuesday, 4 December, 2007	
<u>SESSION 5 (Cont): Trapping procedures</u>	
8.30-10-15	Working groups: Trapping procedures (specification 35, production of draft standard)
10.15-10.45	COFFEE
10.45-12-30	Working groups (Cont.): Trapping procedures (specification 35, production of draft standard)
12.30-13.30	LUNCH
13.30-15.00	Working groups (Cont.): Trapping procedures (specification 35, production of draft standard)
15.00-15.30	COFFEE
15.30-17.30	Working groups (Cont.): Trapping procedures (specification 35, production of draft standard)
Wednesday, 5 December 2007	
<u>SESSION 5 (Cont): Trapping procedures</u>	
08.30-10.15	Working groups (Cont.): Trapping procedures (specification 35, production of draft standard)
10.15-10.45	COFFEE
10.45-12.30	Working groups (Cont.): Trapping procedures (specification 35, production of draft standard)
12.30-13.30	LUNCH

13.30-15.00	Working groups (Cont.): Trapping procedures (specification 35, production of draft standard)
15.00-15.30	COFFEE
15.30-17.30	Working groups (Cont.): Trapping procedures (specification 35, production of draft standard)
Thursday, 6 December 2007	
<u>SESSION 5 (Cont.): Trapping procedures</u>	
08.30-10.15	Working group presentations
10.15-10.45	COFFEE
10.45-12.30	Discussion (Section 5)
12.30-13.30	LUNCH
<u>SESSION 6: Final report</u>	
13.30-15.00	Draft of FF-SA
15.00-15.30	COFFEE
15.30-17.30	Draft of FF-SA
Friday, 7 December, 2007	
<u>SESSION 6 (Cont): Final report</u>	
08.30-10.15	Review of priority for next meeting
10.15-10.45	COFFEE
10.45-12.30	Work program for 2008-2009 (including next meeting dates)
12.30-13.30	LUNCH
13.30-15.00	Conclusions and Meeting report
15.00-15.30	COFFEE
15.30-17.00	Conclusions and Meeting report
	Closing

DOCUMENTS LIST**Technical panel on pest free areas and areas of low pest prevalence for fruit flies (TPFF)**

3-7 December 2007

Vienna, Austria

IAEA Headquarters

Document number	Document title
2007-TPFF-01	Agenda
2007-TPFF-02	Document list
2007-TPFF-03	Participants list
2007-TPFF-04	Local information
2007-TPFF-05	Specification for TPFF (Rev 2)
2007-TPFF-06	Report of 2006 meeting
2007-TPFF-07	Specification No. 39: Suppression and eradication procedures for fruit flies (Tephritidae)
2007-TPFF-08	Specification No. 41: Establishment of pest free places of production and pest free production sites for fruit flies (Tephritidae)
2007-TPFF-09	Specification No. 35: Trapping procedures for fruit flies (Tephritidae)
2007-TPFF-10	IAEA trapping guidelines for area-wide fruit fly programmes
2007-TPFF-11	Excerpts of meeting reports of the CPM, Standards Committee and other technical panels
2007-TPFF-12	IPPC standard setting work programme
2007-TPFF-13	Draft specification for host susceptibility
2007-TPFF-14	Lynfield traps (for trapping guidelines)
2007-TPFF-15	Procedure for quality control inspection of trapping programs
2007-TPFF-15-Annex 1	Quality control summary chart
2007-TPFF-15-Annex 2	Quality control planting chart

PROPOSED WORK PROGRAMME 2007-2008**Technical panel on pest free areas and areas of low pest prevalence for fruit flies (TPFF)**

2007	
December	14th: W. Enkerlin to submit redrafted FF-trapping to TPFF 21st: Comments on FF-trapping due to W. Enkerlin
2008	
January	15th: FF-trapping draft due to Secretariat for consideration by SC in May 15th: Secretariat to send meeting report to TPFF for comments 31st: Comments on FF irradiation treatments due (through NPPO contact point)
February	1st: Comments on meeting report due to Secretariat
March	15th: Odilson and Jaime G. to coordinate proposal for topic for new ISPM (regional response for exotic FF introduction) and revision of annex 1 of ISPM No. 26 (to complement the corrective action plan including the establishment and maintenance of regulated areas)
April	7-11: CPM-3 meeting (potential adoption of FF-ALPP draft ISPM)
May	5-9: SC meeting (consideration of draft ISPMs on FF-SA and FF-trapping drafts)
June	20th: Beginning of member comment period (potentially FF-SA and FF-trapping drafts)
July	31st: Deadline for submission to IPPC Secretariat of discussion papers on establishment of pest free places of production and pest free production sites
August	
September	1-5: Tentative 2008 TPFF meeting (main topic: establishment of pest free places of production and pest free production sites) 30th: Deadline for submission of comments on draft ISPMs
October	
November	3-7: Tentative meeting of SC working group (consideration of ISPMs sent for consultation) 10-14: Tentative meeting of SC (consideration of ISPMs sent for consultation)
December	

PARTICIPANTS LIST**Technical panel on pest free areas and areas of low pest prevalence for fruit flies (TPFF)**

3-7 December 2007

Vienna, Austria

IAEA Headquarters

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