



Virtual Meeting
3 September 2013

REPORT

Technical Panel on Phyosanitary Treatments September 2013



Food and Agriculture Organization of the United Nations

CONTENTS

1. Opening of the meeting	3
1.1 Virtual meeting information for Adobe Connect.....	3
1.2 Welcome by the IPPC Secretariat.....	3
2. Update from the Secretariat.....	3
Request to submitters for additional information	3
Share proposed ISPMs for guidelines for treatments with NPPOs and RPPOs asking for support.....	3
Submissions for Call for Topics	3
3. TPPT Work Programme.....	4
TPPT Forum results on schedules coming out of the 2013 TPPT meeting	4
TPPT Forum results on Working TPPT criteria for treatment evaluation.....	5
TPPT forum on 2013 TPPT meeting report	5
Treatment evaluations for 2013 TPPT meeting report and assign assistant leads for some treatments	5
Revision to the TPPT position paper on adult emergence after irradiation.....	5
4. Other business	5
5. Close of the Meeting and Feedback	6
Appendix 1: Agenda.....	7
Appendix 2. TPPT Work Programme	8

1. Opening of the meeting

1.1 Virtual meeting information for Adobe Connect

Before beginning the meeting, the IPPC Secretariat (hereafter Secretariat) gave a brief overview/refresher of the virtual meeting tool Adobe Connect.

1.2 Welcome by the IPPC Secretariat

The IPPC Secretariat welcomed the participants to the meeting and participants introduced themselves. Four members of the Technical Panel on Phytosanitary Treatments (TPPT), TPPT Steward and two Secretariat staff participated in the meeting (see list below).

Mr Jan Bart ROSSEL (Steward) AUSTRALIA

Mr Antarjo DIKIN (Previous Steward) INDONESIA

Mr Patrick GOMES (TPPT Member) USA

Mr Guy HALLMAN (TPPT Member) USA

Mr Michael ORMSBY (TPPT Member) NEW ZEALAND

Mr Eduardo WILLINK (TPPT Member) ARGENTINA

Mr Artur SHAMILOV (IPPC Secretariat Lead) ITALY

Mr Mirko MONTUORI (IPPC Secretariat) ITALY

The panel approved the agenda (see Appendix 1 to this report). Mr Patrick Gomes was elected as rapporteur for this meeting.

2. Update from the Secretariat

Request to submitters for additional information

The Secretariat informed the panel that the letters requesting additional information were sent to the submitters of the treatment *Vapour heat treatment for Mangifera indica var. Manila Super* (2009-108) and *Vapour heat treatment for Bactrocera tryoni on Mangifera indica* (2010-107).

Share proposed ISPMs for guidelines for treatments with NPPOs and RPPOs asking for support

The TPPT was informed that the proposed submissions for ISPMs on guidelines for treatments received confirmation of support from NPPOs (Australia, Indonesia, USA) and RPPOs (APPPC, EPPO, IAPSC, NAPPO and COSAVE). Subsequently, the TPPT Steward formally submitted to the Secretariat five submissions on new ISPMs for requirements for the use of temperature, fumigation, chemical, and modified atmosphere treatments as a phytosanitary measure as well as the revision of ISPM 18:2003.

Submissions for Call for Topics

At its 2013 July meeting the TPPT drafted the submission forms (justification) for the treatment topics and agreed to submit them in response to the 2013 Call for Topics. The Secretariat formally received these submissions for further progress.

The TPPT thanked and noted the update from the Secretariat.

3. TPPT Work Programme

TPPT Forum results on schedules coming out of the 2013 TPPT meeting

The TPPT conducted a forum discussion from 5-18 August 2013 on treatment schedules recommended to the Standards Committee (SC) for member consultation (MC).

The Secretariat compiled all comments and updated the treatment schedules accordingly. One concern was raised that high temperature forced air (HTFA) treatments are much more complex than irradiation and cold treatments and that is reflected in these treatments under consideration. However, HTFA treatments would be greatly simplified if specification of only two factors was needed:

- (1) minimum core temperature for the entire load;
- (2) minimum time at that core temperature.

It was noted that there might be other factors that could affect efficacy (e.g., time to reach core temperature), but the differences that may result from these modifying factors may not be significant for commercial application. Accepting this could harmonize treatment criteria for HTFA treatments.

It was noted that in the specification for the *High temperature forced air treatment for Bactrocera melanotus and B. xanthodes (Diptera: Tephritidae) on Carica papaya (2009-105)*, the relative humidity was set at a minimum of 60% when Waddell et al. (1997), a supporting reference, shows that the relative humidity was mostly >90. This may indicate that relative humidity for HTFA treatment affects overall efficacy (humid air carries more heat).

It was noted that this treatment time stated “for at least 3 hours” when the supporting reference by Waddell et al. (1997) shows that it took at least 5 2/3 hours for the treatment to be done (subtracting 1 1/3 h for hydro cooling from the 7 h total treatment time).

If hydro cooling is performed for the sake of commodity quality rather than treatment efficacy, such time should not be included in the treatment schedule.

There was a concern on how the HTFA treatment schedule should be provided: if the panel accepted the hypothesis that heat-up time does not matter then heat-up time does not need to be included in the schedule.

It was noted that relative humidity is a very important factor affecting both commodity quality, as well as risk mitigation. Another factor which should be taken into account is the heat-up time, because some research showed that quick heat-up time is more effective and does not allow the organism to acclimate to temperature changes.

It was asked if the highest temperature recorded during the confirmatory tests should be considered as a minimum requirement of the other treatment schedules.

It was noted that the panel needs to know how different factors affect efficacy and all these details should be provided for each treatment. Although they may need to be adjusted in order to adhere to the criterion that the most extreme reading during confirmatory testing is the minimum requirement of the schedule for commercial application, as it has been done for irradiation and cold treatments.

It was noted that during the member consultation period some comments may come with additional information on these issues.

Following the Secretariat suggestion, the TPPT agreed these issues be added to the TPPT work programme for further discussion and possible research, as well as further consideration after the member consultation period.

One panel member informed that he could undertake initial research on how different factors affect efficacy during heat treatments in order to find some consistencies. Another panel member recommended the adoption of a standardized format for treatment schedules.

One panel member suggested that the TPPT review those factors which can affect efficacy of heat treatments and encouraged TPPT members to share any available information in this regard.

The TPPT discussed the differences between *Vapour heat treatment* (VHT) and *High temperature forced air treatment* (HTFA). One panel member noted that these two types of treatment are very similar and overlapping. However, it was noted that VHT and HTFA are technically different at least because VHT uses a higher humidity level, which results in higher and faster heating.

It was noted that recent submissions in response to the Call for topics on a new ISPM on using temperature treatments as a phytosanitary measure should contain all information related to quality, relative humidity, applicability of the treatments, etc., while the treatments schedule will only contain the essential elements to achieve efficacy.

The TPPT agreed that the Secretariat will update the draft schedule based on comments received during the virtual meeting discussion and will inform the panel once these treatment schedules are posted on IPP restricted work area.

TPPT Forum results on Working TPPT criteria for treatment evaluation

The Secretariat reminded the panel that this document was updated during the 2013 July meeting, when it was agreed to make it public by adding it to the IPPC Procedure Manual. The TPPT members provided their comments through posts on an IPP forum discussion (5-19 August 2013). The Secretariat compiled all comments and updated the document in accordance with comments received. The TPPT agreed that one panel member will review the final version and will submit this document to the Secretariat.

TPPT forum on 2013 TPPT meeting report

The Report of July 2013 TPPT Meeting (Fukuoka, Japan) was discussed and commented on during the TPPT forum (13-27 August). The Secretariat informed the TPPT that meeting report with compiled comments edited and formatted will be presented to the panel for formal approval in a future forum discussion.

Treatment evaluations for 2013 TPPT meeting report and assign assistant leads for some treatments

The TPPT discussed the issue raised by the Secretariat on whether each treatment lead needs an assistant to provide documents prior to and after the TPPT meetings in order to meet the appointed deadlines.

It was noted that currently assigned assistant leads are not involved in the treatment evaluation process. One panel member noted that to have an assigned assistant lead is useful for collaboration and consultation purposes, especially where language skills could help in drafting a treatment schedule. The TPPT agreed that Secretariat will assign Assistant Leads for the various treatments.

As the TPPT membership of Mr Min-Goo Park expires in 2014, the TPPT reassigned Mr Guy Hallman as a treatment lead for the Vapour heat treatment for *Bactrocera tryoni* on *Mangifera indica* (2010-107). The Secretariat will provide Mr. Hallman the most recent version for review.

Revision to the TPPT position paper on adult emergence after irradiation

Since the TPPT member assigned as a lead for this paper was not able to attend the September virtual meeting, TPPT members agreed to discuss this paper during the next meeting.

4. Other business

One of the panel members was in contact with the Steward of the Technical Panel on the Glossary (TPG) to discuss steps to be taken for adopting a definition for Effective Dose (ED). A technical document will be needed and circulated among TPPT members. The Secretariat will look into the timetable for submission of new terms to the TPG.

The Secretariat reminded the panel that at its 2012 December meeting the TPPT requested the SC to issue a Call for Experts on Soil and growing media treatments, and that subsequently the SC agreed and requested the Secretariat to issue the Call for experts for the TPPT as well as for the TPG and EWGs.

The Secretariat informed the panel that the Call for experts planned in September 2013 would be issued soon despite the TPPT recommendation in the 2013 July meeting to eliminate the topic *Soil and growing media treatments* from the List of topics for IPPC standards.

5. Close of the Meeting and Feedback

The panel agreed to adopt the meeting report via IPP forum.

The Secretariat thanked the members for their participation and closed the meeting.

Appendix 1: Agenda

AGENDA ITEM	DOCUMENT NO.	PRESENTER
1. Opening of the meeting	-	SHAMILOV
<ul style="list-style-type: none"> • Welcome by the IPPC Secretariat • Virtual meeting information for Adobe Connect • Introductions • Election of Rapporteur 	2013_TPPT_Sep_01 2013_TPPT_Sep_03 2013_TPPT_Sep_02	SHAMILOV
2. Update from the Secretariat		
<ul style="list-style-type: none"> • Request to submitters for additional information • Share proposed ISPMs for guidelines for treatments with NPPOs and RPPOs asking for support by 5 August • Submissions for Call for topics due 	2013_TPPT_Sep_04	SHAMILOV
3. TPPT Work Programme		
<ul style="list-style-type: none"> • TPPT Forum results on schedules coming out of the 2013 TPPT meeting • TPPT Forum results on Working TPPT criteria for treatment evaluation • Ongoing TPPT forum on 2013 TPPT meeting report • Treatment evaluations for 2013 TPPT meeting report and assign assistant leads for some treatments • Revision to the TPPT position paper on adult emergence after irradiation 	2013_TPPT_Sep_04 2013_TPPT_Jun_XX	SHAMILOV JESSUP
4. Other business	-	SHAMILOV
<ul style="list-style-type: none"> • Developing and submitting a definition for Effective Dose • Call for experts on Soil and growing media 		
5. Close of the meeting and feedback	-	SHAMILOV

Appendix 2. TPPT Work Programme

Updated: 2013 September prior to 2013 September TPPT Virtual Meeting

2013 DUE DATE	RESPONSIBLE	ACTION
Ongoing	SHAMILOV	Investigate storage location for for TPPT relevant docs, templates, working docs, etc.
19 Jul	SHAMILOV	Share proposed ISPMs for guidelines for treatments with Indonesia, AU, EU, USA, RPPOs asking for support by 5 August
26 Jul	ALL MEMBERS	Schedules coming out of the 2013 TPPT meeting
31 Jul	JESSUP	Revision of TPPT position paper on adult emergence in irradiation treatments posted on IPP forum for TPPT discussion
31 Jul	ALL MEMBERS	Treatment Evaluations for 2013 TPPT meeting report
1-15 Aug	SHAMILOV/ ALL MEMBERS	Forum: TPPT working criteria for evaluating treatments – forum discussion and approval (All members)
1-15 Aug	ALL MEMBERS	Forum: for schedules coming out of 2013 TPPT meeting
1-21 Aug	ALL MEMBERS	Forum: 2013 TPPT meeting report open for discussion
15 Aug	All members	TPPT virtual meeting (Adobe Connect)
31 Aug	SHAMILOV	Send requests for information to submitters
31 Aug	SHAMILOV	Submissions for Call for Topics due
15-30 Sep	SHAMILOV	Forum: TPPT June Virtual meeting report discussion
1-7 Oct	ALL MEMBERS	Forum: 2013 TPPT meeting report open for approval
15 Oct	SHAMILOV	2013 TPPT meeting report posted
17 Oct	All members	TPPT virtual meeting (Adobe Connect)
1 Nov	ALL MEMBERS	Update treatment portfolio from 2013 Meeting
2-6 Dec	SOME MEMBERS	ECCT meeting in Buenos Aires, Argentina
20 Dec	SHAMILOV/ ALL MEMBERS	Training on IPPC Online Comment System
2014 DUE DATE	RESPONSIBLE	ACTION
16 Jan	All members	TPPT virtual meeting (Adobe Connect)
1 Apr	ORMSBY	Instruction to assist in proper and complete submissions
1 Apr	SHAMILOV	Send reminder for requests for information
1 May	ALL MEMBERS	Submissions of Data due for 2014 TPPT meeting
1 Jun	ALL MEMBERS	Treatment portfolios, checklists, etc. due for 2014 TPPT meeting
15 Jun	ALL MEMBERS	All discussion papers due for 2014 TPPT meeting
21 Jun	SHAMILOV	All documents posted for 2014 TPPT meeting
7-11 Jul	All members	2014 TPPT Meeting (Indonesia)