



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention

REPORT

Technical Panel on Phytosanitary Treatments

**Virtual meeting
4 November 2020**

IPPC Secretariat

FAO. 2020. *Report of the November Virtual Meeting of the Technical panel on Phytosanitary Treatments, 04 November 2020*. Published by FAO on behalf of the Secretariat of the International Plant Protection Convention (IPPC). 10 pages. Licence: CC BY-NC-SA 3.0 IGO.

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1. Opening of the Meeting

1.1. Welcome by the IPPC Secretariat and introductions

[1] The International Plant Protection Convention (IPPC) Secretariat (hereafter referred to as “Secretariat”) lead for the Technical Panel on Phytosanitary Treatments (TPPT) chaired the meeting and welcomed the following participants:

1. Mr David OPATOWSKI (TPPT Steward)
2. Ms Andrea BEAM (USA)
3. Mr Toshiyuki DOHINO (Japan)
4. Mr Scott MYERS (USA)
5. Mr Michael ORMSBY (New Zealand)
6. Mr Matthew SMYTH (Australia)
7. Mr Eduardo WILLINK (Argentina)
8. Mr Guy HALLMAN (Invited expert)
9. Ms Janka KISS (IPPC Secretariat, lead)
10. Mr Artur SHAMILOV (IPPC Secretariat, support)

[2] Mr Daojian YU, Mr Peter LEACH and Mr Walther ENKERLIN HOEFLICH was unable to attend this meeting.

[3] The full list of TPPT members and their contact details can be found on the International Phytosanitary Portal (IPP)¹.

1.2. Adoption of the agenda and election of the rapporteur

[4] The Secretariat introduced the agenda and it was adopted as presented in Appendix 1 to this report.

[5] Mr Eduardo WILLINK was elected as the Rapporteur.

2. TPPT work programme

[6] The TPPT discussed the 7 phytosanitary treatments that completed second consultation and addressed the consultation comments².

[7] The TPPT noted that in general much less comments were submitted during the second round of consultation, and the submitted comments mostly required an explanation, but not to change the draft PTs.

2.1 Draft PT: Irradiation treatment for *Bactrocera dorsalis* (2017-015)

[8] Mr Peter LEACH, the Treatment Lead was unable to attend this meeting, thus Mr Guy HALLMAN introduced the Treatment Lead summary, the compiled comments and the draft PT³.

[9] In total there were 30 comments. The TPPT discussed the major comments.

[10] **References.** One comment requested the inclusion of references in the “Treatment Schedule” rather than in “Other relevant information”. Providing references in “Other relevant information” is standard practice in all the annexes that have been developed for ISPM 28 to date. The current format also has the advantage that it allows the TPPT to explain if other references have been reviewed to support the use of the schedule being developed, so this comment was not incorporated.

¹ TPPT membership list: <https://www.ippc.int/en/publications/81655/>

² Consultation comments from the 2020 consultation: <https://www.ippc.int/en/core-activities/standards-setting/member-consultation-draft-ispms/>

³ 11_TPPT_2020_Nov, 12_TPPT_2020_Nov, 2017-015

- [11] **Probit.** One comment suggests the inclusion of “Probit” estimates and that the treatment should meet Probit 9. The TPPT does not refer to Probit estimates nor stipulate a minimum efficacy rates for treatment approval. Every treatment schedule is reviewed and approved on a case-by-case basis, so the comment was not incorporated.
- [12] **Restriction of modified atmosphere use.** The TPPT discussed that the SC already approved their recommendation to remove the restriction of irradiating commodities that have been stored in modified atmospheres from PTs concerning fruit flies, but that this has not yet been considered by the CPM. The TPPT agreed to remove the restriction from this treatment as soon as the CPM agrees to the SC recommendation, for this PT and for the draft PT on Irradiation treatment for the genus *Anastrepha* (2017-031).
- [13] **Eggs.** One comment suggested the inclusion of “eggs” as an additional life stage that inspectors may encounter during the inspection process. While eggs are less radio tolerant stage and may be found by inspectors and as such the comment has been incorporated. The TPPT noted that this should be done consistently for all irradiation PTs for fruit flies, and included the same adjustment to the draft treatment for *Anastrepha* species (section 2.7).
- [14] The TPPT
- (1) *recommended* the draft PT: Irradiation treatment for *Bactrocera dorsalis* (2017-015) to the SC for approval for adoption
 - (2) *approved* the responses to consultation comments as “TPPT responses” to be presented to the SC.

2.2 Draft PT: Cold treatment for *Ceratitis capitata* on *Prunus avium*, *Prunus salicina* and *Prunus persica* (2017-022A)

- [15] Mr Toshiyuki DOHINO, the Treatment Lead introduced the Treatment Lead summary, the responses to the consultation comments, and the draft PT⁴.
- [16] A total of 48 comments were submitted by member countries in the second consultation on July-September 2020. The TPPT discussed the following main issues:
- [17] **Varietal differences:** it was proposed by a comment to not to indicate the varieties of the fruits used in the study supporting this treatment, as the treatment is applicable to the species, as a whole, and not only to certain varieties.
- [18] The TPPT decided not to incorporate this comment, as it is clear from the PT that the treatment is applicable to *Prunus avium*, *Prunus salicina* and *Prunus persica* as there is no indication of differences in treatment efficacy between varieties, and indicating the tested varieties is consistent with recent practices of the TPPT to provide more information on the supporting studies in the Other relevant information section.
- [19] **Endpoint.** Two comments argued that the treatment efficacy of cold treatment should be based the mortality of the most tolerant stage of target pest as indicated in ISPM 42 (*Requirements for temperature treatemnts as a phytosnitary measure*). The endpoint for eggs and larvae in the drafts of 2017-022A, 2017-022B, 2017-023A, 2017-023B is “kill” and “failure to pupariate”.
- [20] The TPPT agreed that the outcome of any cold treatment as stated must be larvae mortality (“to result in the mortality of eggs and larvae of *Ceratitis capitata* at the stated efficacy”). Therefore any presence of live larvae found during import inspection may be regarded as a failure of treatment in line with ISPM42. The endpoint, failure to pupariate, has been recognized by international experts as a valid outcome to be used in efficacy trials of a treatment and is a way to measure mortality (See 2020-

⁴ 02_TPPT_2020_Nov, 03_TPPT_2020_Nov, 2017-022A

02 TPPT report⁵). The endpoint of “failure to pupariate” have been accepted in the adopted PTs (PT 24, PT 25, PT 26, PT 30 and PT 31).

[21] The TPPT agreed to keep the text of the draft PT unchanged and provided suggestions on the responses to consultation comments.

[22] The TPPT

- (3) *recommended* the draft PT: Cold treatment for *Ceratitidis capitata* on *Prunus avium*, *Prunus salicina* and *Prunus persica* (2017-022A) to the SC for approval for adoption
- (4) *approved* the responses to consultation comments as “TPPT responses” to be presented to the SC.

2.3 Draft PT: Cold treatment for *Bactrocera tryoni* on *Prunus avium*, *Prunus salicina* and *Prunus persica* (2017-022B)

[23] Mr Toshiyuki DOHINO, the Treatment Lead introduced the Treatment Lead summary, the responses to the consultation comments, and the draft PT⁶.

[24] As the comments to this PT were similar, refer to the discussion reported under 2.2.

[25] The TPPT

- (5) *recommended* the draft PT: Cold treatment for *Bactrocera tryoni* on *Prunus avium*, *Prunus salicina* and *Prunus persica* (2017-022B) to the SC for approval for adoption
- (6) *approved* the responses to consultation comments as “TPPT responses” to be presented to the SC.

2.4 Draft PT: Irradiation treatment for *Carposina Sasakii* (2017-026)

[26] Mr Scott MYERS, the Treatment Lead introduced the Treatment Lead summary, the responses to the consultation comments, and the draft PT⁷.

[27] In total there were 39 comments. All comments supported the adoption of Draft PT. The majority of comments referred to typographical errors, using acronyms correctly, missing punctuation, or inconsistencies in punctuation in the reference section, these comments were incorporated into the draft.

[28] **References.** One comment requested the inclusion of references in the “Treatment Schedule” rather than in “Other relevant information”. Providing references in “Other relevant information” is standard practice in all the annexes that have been developed for ISPM 28 to date. The current format also has the advantage that it allows the TPPT to explain if other references have been reviewed to support the use of the schedule being developed.

[29] The TPPT

- (7) *recommended* the draft PT: Irradiation treatment for *Carposina Sasakii* (2017-026) to the SC for approval for adoption
- (8) *approved* the responses to consultation comments as “TPPT responses” to be presented to the SC.

⁵ 2020-02 TPPT Virtual Meeting Report: <https://www.ippc.int/en/publications/88293/>

⁶ 04_TPPT_2020_Nov, 05_TPPT_2020_Nov, 2017-022B

⁷ 14_TPPT_2020_Nov, 15_TPPT_2020_Nov, 2017-026

2.5 Draft PT: Cold treatment for *Ceratitis capitata* on *Vitis vinifera* (2017-023A)

[30] Mr Toshiyuki DOHINO, the Treatment Lead introduced the Treatment Lead summary, the responses to the consultation comments, and the draft PT⁸.

[31] As the comments to this PT were similar, refer to the discussion reported under 2.2.

[32] The TPPT

(9) *recommended* the draft PT: Cold treatment for *Ceratitis capitata* on *Vitis vinifera* (2017-023A) to the SC for approval for adoption

(10) *approved* the responses to consultation comments as “TPPT responses” to be presented to the SC.

2.6 Draft PT: Cold treatment for *Bactrocera tryoni* on *Vitis vinifera* (2017-023B)

[33] Mr Toshiyuki DOHINO, the Treatment Lead introduced the Treatment Lead summary, the responses to the consultation comments, and the draft PT⁹.

[34] As the comments to this PT were similar, refer to the discussion reported under 2.2.

[35] The TPPT

(11) *recommended* the draft PT: Cold treatment for *Bactrocera tryoni* on *Vitis vinifera* (2017-023B) to the SC for approval for adoption

(12) *approved* the responses to consultation comments as “TPPT responses” to be presented to the SC.

2.7 Draft PT: Irradiation treatment for the genus *Anastrepha* (2017-031)

[36] Mr Matthew SMYTH, the Treatment Lead introduced the Treatment Lead summary, the responses to the consultation comments, and the draft PT¹⁰.

[37] In total there were 26 comments. The outstanding comments were discussed by the TPPT.

[38] **Adopted PTs for *Anastrepha* species.** One comment raised that there is a higher dose already accepted for *Anastrepha serpentina*. This issue was discussed at the TPPT at their 2018-06 meeting¹¹, and they agreed the new information considered in this draft PT supports the adoption of the lower generic dose. The TPPT agreed the detailed response is provided to the compiled comments document.

[39] **Dose.** Another comment acknowledges the draft PT is based on available research but considers the 70 Gy dose is low compared to other fruit flies. No technical reason is provided as to why the draft PT would not be effective. The comment also seeks a generic dose to manage fruit fly in mango but this is outside the scope of the draft PT. The TPPT agreed the detailed response is provided to the compiled comments document.

[40] **Restriction of modified atmosphere use.** The TPPT discussed that the SC already approved their recommendation to remove the restriction of irradiating commodities that have been stored in modified atmospheres from PTs concerning fruit flies, but that this has not yet been considered by the CPM. The TPPT agreed to remove the restriction from this treatment as soon as the CPM agrees to the SC recommendation.

⁸ 06_TPPT_2020_Nov, 07_TPPT_2020_Nov, 2017-023A

⁹ 08_TPPT_2020_Nov, 09_TPPT_2020_Nov, 2017-023B

¹⁰ 10_TPPT_2020_Nov, 13_TPPT_2020_Nov, 2017-031

¹¹ 2018-06 TPPT Meeting Report (Section 4.5): <https://www.ippc.int/en/publications/86619/>

[41] **Eggs.** The TPPT agreed to include in the text of the draft PT that inspectors may encounter not only non-viable larvae or puparia during the inspection process but eggs as well. Discussion reported under section 2.1.

[42] The TPPT

(13) *recommended* the draft PT: Irradiation treatment for the genus *Anastrepha* (2017-031) to the SC for approval for adoption

(14) *approved* the responses to consultation comments as “TPPT responses” to be presented to the SC.

3. Updates

3.1 IFQRG update

[43] The Chair of the International Forestry Research Group (IFQRG) Mr Mike ORMSBY provided an update on the recent IFQRG Symposium. He mentioned several treatment related matter being discussed. One of these is the progress made with researching the phytosanitary use of EDN treatments. He also informed the TPPT of the presentations on dielectric heat treatments and how the work is being progressed on the guide on ISPM 15 treatments under the guidance of one of the subgroups of the Implementation and Capacity Development Committee (IC). He also mentioned the use of wood preservatives that are efficient on pine wood nematode, and that this could be interesting when drafting the ISPM on chemical treatments, that is on the workprogramme of the TPPT.

4. Close of the Meeting

[44] The Secretariat thanked the TPPT members for their participation and closed the meeting.

Appendix 1: Agenda**2020 NOVEMBER VIRTUAL MEETING OF THE TECHNICAL PANEL
ON PHYTOSANITARY TREATMENTS (TPPT)****AGENDA**

	AGENDA ITEM	DOCUMENT NO.	PRESENTER
1.	Opening of the meeting		
1.1	Welcome by the IPPC Secretariat		KISS / ALL
1.2	Adoption of the agenda and election of the rapporteur	01_TPPT_2020_Nov	KISS / ALL
2.	TPPT work programme – PTs from second consultation	All submissions: https://www.ippc.int/en/work-area-pages/draft-phytosanitary-treatments-and-relevant-documents/	
2.1	Draft PT: Irradiation treatment for <i>Bactrocera dorsalis</i> (2017-015) - Compiled comments - Treatment Lead summary - Draft PT	11_TPPT_2020_Nov 12_TPPT_2020_Nov 2017-015	LEACH
2.2	Draft PT: Cold treatment for <i>Ceratitis capitata</i> on <i>Prunus avium</i> , <i>Prunus salicina</i> and <i>Prunus persica</i> (2017-022A) - Compiled comments - Treatment Lead summary - Draft PT	02_TPPT_2020_Nov 03_TPPT_2020_Nov 2017-022A	DOHINO
2.3	Draft PT: Cold treatment for <i>Bactrocera tryoni</i> on <i>Prunus avium</i> , <i>Prunus salicina</i> and <i>Prunus persica</i> (2017-022B) - Compiled comments - Treatment Lead summary - Draft PT	04_TPPT_2020_Nov 05_TPPT_2020_Nov 2017-022B	DOHINO
2.4	Draft PT: Irradiation treatment for <i>Carposina Sasakii</i> (2017-026) - Compiled comments - Treatment Lead summary - Draft PT	14_TPPT_2020_Nov 15_TPPT_2020_Nov 2017-026	MYERS
2.5	Draft PT: Cold treatment for <i>Ceratitis capitata</i> on <i>Vitis vinifera</i> (2017-023A) - Compiled comments - Treatment Lead summary	06_TPPT_2020_Nov 07_TPPT_2020_Nov	DOHINO

	AGENDA ITEM	DOCUMENT NO.	PRESENTER
	- Draft PT	2017-023A	
2.6	Draft PT: Cold treatment for <i>Bactrocera tryoni</i> on <i>Vitis vinifera</i> (2017-023B) <ul style="list-style-type: none"> - Compiled comments - Treatment Lead summary - Draft PT 	08_TPPT_2020_Nov 09_TPPT_2020_Nov 2017-023B	DOHINO
2.7	Draft PT: Irradiation treatment for the genus <i>Anastrepha</i> (2017-031) <ul style="list-style-type: none"> - Compiled comments - Treatment Lead summary - Draft PT 	10_TPPT_2020_Nov 13_TPPT_2020_Nov 2017-031	SMYTH
3.	Updates		KISS
3.1	IFQRG update		ORMSBY
4.	Close of the meeting	-	KISS