2019 FIRST CONSULTATION

1 July – 30 September 2019

Compiled comments for Draft PT: Cold treatment for Ceratitis capitata on Prunus avium, Prunus domestica and Prunus persica (2017-022A)

Summary of comments

Name	Summary
Cuba	Estamos de acuerdo con la propuesta de tratamiento.
European Union	Comments submitted by the European Commission on Behalf of the European Union and its 28 Member States.
Malawi	Malawi supports draft Annex to ISPM 28: Cold treatment for Ceratitis capitata on Prunus avium, Prunus domestica and Prunus persica(2017-022A)
South Africa	The National Plant Protection Organisation of South Africa (NPPOZA) has no comments and therefore accepts this standard.

T (Type) - B = Bullet, C = Comment, P = Proposed Change, R = Rating

FAO sequential number	Para	Text	т	Comment
1	G	(General Comment)	С	Guyana We support the document in its entirety and have no objection with it moving forward. Category : SUBSTANTIVE
2	G	(General Comment)	С	Mexico I support the document as it is and I have no comments Category : SUBSTANTIVE
3	G	(General Comment)	С	Ecuador Comentario para las dos propuestas de anexos a la norma 28: En los protocolos se menciona se tiene un nivel de confianza del 95% en que el tratamiento conforme a este protocolo prevenga el desarrollo de puparios en no menos del 99,9979% de los huevos y las larvas de Ceratitis capitata, habla de "huevos" y larvas; mientras que en otra información pertinente se menciona que la eficacia del tratamiento se basa en la ausencia de desarrollo del pupario como medida de la mortalidad, cuyas cifras estimadas de individuos tratados incluyen a los huevos o solo es la estimación de larvas que no se convirtieron en pupa?? <i>Category : TECHNICAL</i>

4	<u> </u>	(Compared Compared)	
4	G	(General Comment)	C Peru
			Perú ratifica los comentarios y sugerencias concordados a
			nivel del COSAVE.
			Category : SUBSTANTIVE
5	G	(General Comment)	C European Union
			There are currently other required cold treatments against
			Ceratitits capitata in use in international trade, which can be
			considered as equivalent to the ones currently proposed in the
			draft Annexes of ISPM N 28. Their effectiveness have been
			proven. Neither interception nor non-compliances of any type
			have ever been recorded, which guarantees the continuity of their
			use in the international trade.
			Details of those cold treatment schedules have been sent to the
			Secretariat.
			Category : SUBSTANTIVE
6	G	(General Comment)	C China
		,	1. The requirement for temperature treatment is "to achieve pest
			mortality (including devitalization of seeds as pests) at a specified
			efficacy" according to ISPM No.42.
			2. There is a conflict between "prevention pupariation" from
			"mortality of eggs and larvae" in line 23.
			3. The current phytosanitary procedures and regulations including
			ISPM No.42 will be changed if prevention pupariation is used as
			the criteria for evaluating treatment efficacy of the fruit flies.
			4. The mortality rate should be taken as the treatment efficiency,
			otherwise, once the live larvae are detected in the port
			quarantine, the effectiveness of the treatment cannot be judged,
			which will lead to trade disputes.
			Category : SUBSTANTIVE
7	G	(General Comment)	C Indonesia
,	Ŭ		Indonesia thinks that the failure to pupariate as the measure of
			mortality for the cold treatment successfulness can be an
			operational problem for the inspector (especially for the importing
			country). Therefore, Indonesia suggests to further study this
			phytosanitary treatment.
			Category : SUBSTANTIVE
8	G	(General Comment)	Categoly . SOBSTANTIVE
0	G		Barbados has no changes to make to this draft.
			Category : EDITORIAL
9	G	(General Comment)	C Slovenia
			Slovenia would like to formally endorse the EPPO comments
			submitted via the IPPC Online Comment System.
			Category : TECHNICAL
10	G	(General Comment)	C Bahrain
			no comment
			Category : TECHNICAL

11	G	(General Comment)	C	Thailand Thailand has no objection on the proposed draft cold treatment for Ceratitis capitata on Prunus avium, Prunus domestica and Prunus persica
12	G	(General Comment)	C	Category : SUBSTANTIVE United States of America We don't have any comments for this draft PT. Category : TECHNICAL
13	G	(General Comment)	C	Malawi Malawi supports Annex ISPM 28: Cold treatment for Ceratitis capitata on Prunus avium, Prunus domestica and Prunus persica (2017-022A) Category : SUBSTANTIVE
14	G	(General Comment)	C	Botswana In agreement with the protocol as it is science based Category : TECHNICAL
15	G	(General Comment)	C	New Zealand New Zealand supports the standard. Category : SUBSTANTIVE
16	G	(General Comment)	C	Congo j'approuve le projet d'annexe à la NIMP 28 Category : SUBSTANTIVE
17	G	(General Comment)	С	Cuba Estamos de acuerdo con la propuesta de tratamiento. Category : TECHNICAL
18	G	(General Comment)	С	Venezuela Venezuela considera que los tratamientos térmicos con frío aplicados a fruta como medida cuarentenaria específica para Mosca Mediterránea de la Fruta (Ceratitis capitata), es efectiva en diferentes cultivos, entre ellos los del genero Prunus. En nuestro criterio, temperaturas menores a 5ºC (0- 2.22ºC), producen mayor mortalidad de la plaga, siendo la eficacia un parámetro asociado con el tiempo de tratamiento empleado (el cual no debe exceder los 15 días continuos), no obstante, preocupa que pudiera estar comprometida la calidad de los frutos luego de la exposición durante un tiempo prolongado a temperaturas extremas. <i>Category : TECHNICAL</i>
Treatment s	schedule			
19	33	For <i>Prunus avium</i> there is 95% confidence that the treatment according to this schedule prevents pupariation-mortality in not less than 99.9979% of eggs and larvae of <i>Ceratitis capitata</i> .	Ρ	 China 1. The requirement for temperature treatment is "to achieve pest mortality (including devitalization of seeds as pests) at a specified efficacy" according to ISPM No.42. 2. There is a conflict between "prevention pupariation" from "mortality of eggs and larvae" in line 23. 3. The current phytosanitary procedures and regulations including

International Plant Protection Convention

				ISPM No.42 will be changed if prevention pupariation is used as the criteria for evaluating treatment efficacy of the fruit flies. 4.The mortality rate should be taken as the treatment efficiency, otherwise, once the live larvae are detected in the port quarantine, the effectiveness of the treatment cannot be judged, which will lead to trade disputes. <i>Category : SUBSTANTIVE</i>
20	34	For <i>Prunus domestica</i> there is 95% confidence that the treatment according to this schedule prevents pupariation mortality in not less than 99. 9984% of eggs and larvae of <i>Ceratitis capitata</i> .	Р	China Category : SUBSTANTIVE
21	35	For <i>Prunus persica</i> there is 95% confidence that the treatment according to this schedule prevents pupariation-mortality in not less than 99.9983% of eggs and larvae of <i>Ceratitis capitata</i> .	P	China Category : SUBSTANTIVE
22	37	For <i>Prunus avium</i> there is 95% confidence that the treatment according to this schedule prevents pupariation mortality in not less than 99.9982% of eggs and larvae of <i>Ceratitis capitata</i> .	Р	China Category : SUBSTANTIVE
23	38	For <i>Prunus domestica</i> there is 95% confidence that the treatment according to this schedule prevents pupariation mortality in not less than 99.9978% of eggs and larvae of <i>Ceratitis capitata</i> .	Р	China Category : SUBSTANTIVE
24	39	For <i>Prunus persica</i> there is 95% confidence that the treatment according to this schedule prevents pupariation mortality in not less than 99.9986% of eggs and larvae of <i>Ceratitis capitata</i> .	Р	China Category : SUBSTANTIVE
25	40	For both schedules, the fruit must reach the treatment temperature before treatment exposure time commences. The fruit <u>core</u> temperature should be monitored and recorded, and the temperature should not exceed the stated level throughout the duration of the treatment.	Ρ	Japan As defined in section 4.2 of ISPM 42, the fruit core temperature should be monitored during cold treatment, so add "core" to clarify the monitoring point. In TPs of cold treatment that have been adopted so far, "core" is not defined in their requirements. However, in TPs of vapor heat treatment (PT 21, 30-32), "core" is defined in their requirements as defined in ISPM 42 (Section 4.2.3). Therefore, TPs of cold treatment that have been adopted so far need to be revised where necessary. <i>Category : SUBSTANTIVE</i>
Other relevant information				
26	44	Schedules 1 and 2 were based on the work of De Lima (2011) and developed using failure to pupariate as the measure of mortality.	C	China Please explain why the results from Delima (2011) are inconsistent with Hallman et al. (2019) for the most cold tolerant stage(s) of the Mediterranean fruit flies from Australia. The most tolerant stage(s) is an important basis for formulating phytosanitary standard and evaluating the treatment efficacy. References: De Lima, C.P.F. (2011). Cold treatment and methyl bromide fumigation of Australian cherries, peaches, nectarines and plums

International Plant Protection Convention

				(8 cultivars) infested with eggs and larvae of the Mediterranean fruit fly (Ceratitis capitata Wiedemann) Diptera: Tephritidae. South Perth, Australia, Department of Agriculture and Food Western Australia. 420 pp. Hallman G. J., Wang L. C., Uzel G. D., Cancio-Martinez E., Cáceres-Barrios C. E., Myers S. W., and Vreysen1 M. J. B. 2019. Comparison of Populations of Ceratitis capitata (Diptera: Tephritidae) from Three Continents for Susceptibility to Cold Phytosanitary Treatment and Implications for Generic Cold Treatments. Journal of Economic Entomology, 112(1):127-133, doi: https://doi.org/10.1093/jee/toy331 Category : SUBSTANTIVE
27	45	The efficacy of schedule 1 was calculated based on the following estimated treated numbers of treated <i>Ceratitis capitata</i> with no survivors:	Ρ	European Union For clarity (see paragraph 65 and Appendix 7 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>
28	45	The efficacy of schedule 1 was calculated based on the following estimated treated numbers of treated <i>Ceratitis capitata</i> with no survivors:	Р	EPPO For clarity (see paragraph 65 and Appendix 7 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>
29	49	The efficacy of schedule 2 was calculated based on the following estimated treated numbers of treated <i>Ceratitis capitata</i> with no survivors:	P	European Union For clarity (see paragraph 65 and Appendix 7 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>
30	49	The efficacy of schedule 2 was calculated based on the following estimated treated numbers of treated <i>Ceratitis capitata</i> with no survivors:	Р	EPPO For clarity (see paragraph 65 and Appendix 7 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>
31	53	Schedules 1 and 2 were developed using the following commodities and cultivars:	С	Argentina It is recommended not to mention varieties in this section, in order to avoid confusion when implementing the treatment scheme in the different species of Prunus. For more information, see the references section. On the other hand, according to ISPM 28, the requirement for varietal tests must be based on evidence that varietal differences have implications for treatment efficacy. <i>Category : SUBSTANTIVE</i>
32	53	Schedules 1 and 2 were developed using the following commodities and cultivars:	С	Uruguay It is recommended not to mention cultivars in this section, in order to avoid confusion when implementing the treatment schedule in different cultivars of Prunus sp. Detailed information on cultivars can be found in the references listed in "References" section. On the other hand, according to ISPM 28, a requirement for varietal testing should be based on evidence that the varietal differences impact treatment efficacy, and data should be

				provided to support the
				requirement
				Category : TECHNICAL
33	53		С	COSAVE
	55	Schedules 1 and 2 were developed using the following commodities and cultivars:		Se recomienda no hacer mención a los cultivares en esta sección, a fin de evitar confusión cuando se implemente el protocolo de tratamiento en las distintas especies de Prunus. Para mas información, se encuentra la sección de referencias. Por otro lado de acuerdo a la NIMF 28, la exigencia de pruebas varietales deben basarse en la evidencia de que las diferencias varietales tienen consecuencias para la eficacia del tratamiento. It is recommended not to mention varieties in this section, in
				order to avoid confusion when implementing the treatment scheme in the different species of Prunus. For more information, see the references section. On the other hand, according to ISPM 28, the requirement for varietal tests must be based on evidence that varietal differences have implications for treatment efficacy. <i>Category : TECHNICAL</i>
References				
34	63	Vendramin E., Pea G., Dondini L., Pacheco I., Dettori MT., Gazza L., Scalabrin S., Strozzi F., Tartarini S., Bassi D., Verde I., Rossini L., 2014-2014. A Unique Mutation in a MYB Gene Cosegregates with the Nectarine Phenotype in Peach. PLoS One March 2014 9(3); e90574., doi: 10.1371/journal.pone.0090574.	Р	European Union A dot is missing after 2014. Category : EDITORIAL
35	63	Vendramin E., Pea G., Dondini L., Pacheco I., Dettori MT., Gazza L., Scalabrin S., Strozzi F., Tartarini S., Bassi D., Verde I., Rossini L., <u>2014-2014</u> . A Unique Mutation in a MYB Gene Cosegregates with the Nectarine Phenotype in Peach. PLoS One March 2014 9(3); e90574., doi: 10.1371/journal.pone.0090574.	Ρ	EPPO A dot is missing after 2014. <i>Category : EDITORIAL</i>