2019 FIRST CONSULTATION

1 July – 30 September 2019

Compiled comments for Draft PT: Cold treatment for Bactrocera tryoni on Prunus avium, Prunus domestica and Prunus persica (2017-022B)

Summary of comments

Name	Summary	SC responses
Cuba	No hay comentarios a la propuesta de trataniento, estamos de acuerdo con el documento.	ОК
European Union	Comments submitted by the European Commission on behalf of the European Union and its 28 Member States.	ок
Malawi	Malawi supports Annex to ISPM 28: Cold Treatment for Batrocera tryoni on Prunus avium, Prunus domestica and Prunus persica (2017-022 B)	ОК
Singapore	Singapore agreed with the draft.	OK
South Africa	The National Plant Protection Organisation of South Africa (NPPOZA) has no comments and therefore accepts this standard.	ОК
Viet Nam	Check again evidence information	See response to comment 16 and 19

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

FAO sequen tial numbe r	Para	Text	т	Comment	SC responses
1	G	(General Comment)	С	Guyana We support the document in its entirety and have no objection with it moving forward. <i>Category : SUBSTANTIVE</i>	ОК
2	G	(General Comment)	С	Mexico I support the document as it is and I have no comments Category : SUBSTANTIVE	ОК
3	G	(General Comment)	С	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 25. 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	MODIFIED The draft was modified and is now consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the schedules clearly (TPPT report June 2018, para 36) in the"other relevant information" section. Failure to pupariate is considerd as an appropriate measure of mortality in this case. The detailed course of action when the live larvae are detected in import-inspection

				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>	should be determined in the work plan under the bilateral agreement.
4	G	(General Comment)	С	Indonesia 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. <i>Category : SUBSTANTIVE</i>	MODIFIED The draft was modified and is now consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the schedules clearly (TPPT report June 2018, para 36) in the "other relevant information" section. Failure to pupariate is considerd as an appropriate measure of mortality in this case. The detailed course of action when the live larvae are detected in import-inspection should be determined in the work plan under the bilateral agreement.
5	G	(General Comment)	С	Barbados Barbados has no changes to make to this draft <i>Category : EDITORIAL</i>	ОК
6	G	(General Comment)	С	Slovenia Slovenia would like to formally endorse the EPPO comments submitted via the IPPC Online Comment System. <i>Category : TECHNICAL</i>	OK (See EPPO comments- 25, 27, 29 and 34)
7	G	(General Comment)	С	Bahrain no comment <i>Category : TECHNICAL</i>	ОК
8	G	(General Comment)	С	Israel Israel would like to formally endorse the EPPO comments submitted via the IPPC Online Comment System Category : SUBSTANTIVE	OK (See EPPO comments 25, 27, 29 and 34)
9	G	(General Comment)	С	Venezuela El documento propone como tratamiento en frió 14 días consecutivos a 1 ºC y 3 ºC o temperaturas inferiores, que al compararlo con investigaciones en desarrollado en el ámbito nacional en P. persica, se considera que los rangos propuestos están dentro de los valores que evidencian un alto nivel de control, que se requiere de los tratamientos fitosanitarios para alcanzar el mayor nivel de mortalidad de la plaga. Es importante señalar que la eficiencia del tratamiento esta en correspondencia con el tiempo empleado para el mismo. <i>Category : TECHNICAL</i>	CONSIDERED BUT NOT INCORPORATED Both schedules (1°C 14 days and 3°C 14days) will be applied to Prunus persica and the efficacy level is different between two schedules; 1°C 14days (99.9928%) > 3°C 14days (99.9917%).
10	G	(General Comment)	С	Thailand Thailand has no objection on the proposed draft cold	ОК

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				treatment for Bactrocera tryoni on Prunus avium, Prunus domestica and Prunus persica	
11	6	(Caparal Commant)	6	Category : SUBSTANTIVE	OK
11	G	(General comment)		The standard is scientifically justified and therefore in	OK .
				agreement	
				Category : TECHNICAL	
12	G	(General Comment)	С	Malawi	ОК
				Bactrocera tryoni on Prunus avium Prunus domestica and	
				Prunus persica(2017-022B)	
				Category : SUBSTANTIVE	
13	G	(General Comment)	С	New Zealand	ОК
				New Zealand supports the standard.	
14	G	(General Comment)	С	Cuba	ОК
				Estamos de acuerdo con la propuesta de tratamiento.	
15				Category : TECHNICAL	
15	G	(General Comment)	C	i approuve le projet d'appeve à: la NIMP 28	OK
				Category : SUBSTANTIVE	
DRAFT	ANNEX	K TO ISPM 28: Cold treatment for Bac	ctroc	cera tryoni on Prunus avium, Prunus domestica and Prunus	
persica (2017-02	2B)			
16	1	DRAFT ANNEX TO	С	Viet Nam	CONSIDERED BUT NOT INCORPORATED
		ISPM 28: Cold treatment		Check again evidence information	(See response to comment 19)
		for Dastrosana truchi on		Category . TECHNICAL	
		Prunus avium Prunus			
		Prunus avium, Prunus			
		Prunus avium, Prunus domestica and Prunus			
		Prunus avium, Prunus domestica and Prunus persica (2017-022B)			
Treatme	nt sched	Prunus avium, Prunus domestica and Prunus persica (2017-022B)			
Treatme 17	nt sched	For Bactrocera tryont on Prunus avium, Prunus domestica and Prunus persica (2017-022B) ule For Prunus persica there is 95%	P	China	MODIFIED The draft was modified and consistent with the
Treatme 17	nt sched 35	For Bactrocera tryont on Prunus avium, Prunus domestica and Prunus persica (2017-022B) ule For Prunus persica there is 95% confidence that the treatment	P	China 1.The requirement for temperature treatment is "to achieve pest mortality (including devitalization of seeds as pests) at a	MODIFIED The draft was modified and consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The
Treatme 17	nt sched 35	Tor Bactrocera tryont onPrunus avium, Prunusdomestica and Prunuspersica (2017-022B)uleFor Prunus persica there is 95%confidence that the treatmentaccording to this schedule prevents	P	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.	MODIFIED The draft was modified and consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the
Treatme 17	nt schedt 35	Infor Bactrocera tryont onPrunus avium, Prunusdomestica and Prunuspersica (2017-022B)uleFor Prunus persica there is 95%confidence that the treatmentaccording to this schedule preventspupariation-mortality in not less	P	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	MODIFIED The draft was modified and consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the schedules clearly (TPPT report June 2018, para 36)
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Treatme 17	nt schedt 35	Tor Bactrocera tryont on Prunus avium, Prunus domestica and Prunus persica (2017-022B)uleFor Prunus persica there is 95% confidence that the treatment according to this schedule prevents pupariation-mortality in not less than 99.9928% of eggs and larvae of Bactrocera tryoni.	P	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 25. 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	MODIFIED The draft was modified and consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the schedules clearly (TPPT report June 2018, para 36) in the"other relevant information" section. Failure to pupariate is considerd as an appropriate measure of mortality in this case. The detailed course of action when the live larvae are detected in import-inspection
Treatme 17	nt sched 35	Iterative Iterative Prunus avium, Prunus domestica and Prunus persica (2017-022B) ule For Prunus persica there is 95% confidence that the treatment according to this schedule prevents pupariation mortality in not less than 99.9928% of eggs and larvae of Bactrocera tryoni.	Р	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 25. 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	MODIFIED The draft was modified and consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the schedules clearly (TPPT report June 2018, para 36) in the"other relevant information" section. Failure to pupariate is considerd as an appropriate measure of mortality in this case. The detailed course of action when the live larvae are detected in import-inspection should be determined in the work plan under the bilateral agrooment
Treatme 17	nt sched 35	Prunus avium, Prunus domestica and Prunus persica (2017-022B) ule For Prunus persica there is 95% confidence that the treatment according to this schedule prevents pupariation-mortality in not less than 99.9928% of eggs and larvae of Bactrocera tryoni.	P	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 25. 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	MODIFIED The draft was modified and consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the schedules clearly (TPPT report June 2018, para 36) in the"other relevant information" section. Failure to pupariate is considerd as an appropriate measure of mortality in this case. The detailed course of action when the live larvae are detected in import-inspection should be determined in the work plan under the bilateral agreement.
Treatmer 17	nt sched 35	For Bactrocera tryont on Prunus avium, Prunus domestica and Prunus persica (2017-022B) ule For Prunus persica there is 95% confidence that the treatment according to this schedule prevents pupariation-mortality in not less than 99.9928% of eggs and larvae of Bactrocera tryoni.	P	 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 25. 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 	<u>MODIFIED</u> The draft was modified and consistent with the adopted ISPM 28-PTs (PT 24, 25, 26, 30 and 31). The TPPT decided to mention the end point of the schedules clearly (TPPT report June 2018, para 36) in the"other relevant information" section. Failure to pupariate is considerd as an appropriate measure of mortality in this case. The detailed course of action when the live larvae are detected in import-inspection should be determined in the work plan under the bilateral agreement.

International Plant Protection Convention

				Category : SUBSTANTIVE	
18	36	Schedule 2: 3 °C or below for 14 continuous days	C	 Category : SUBSTANTIVE United States of America Considering the submitted data, we recognize that the estimated time to achieve probit-9 mortality at 3 ;C is 10.92 days for the first instars (the most tolerant stage) and that there were no survivors after 14 days at 3 ;C in the large-scale confirmatory trials. However, we also noted that there were two surviving larvae after a 12-day exposure to 3 ;C in the most tolerant stage tests. Since we have no information on survival at the 13-day point, we cannot confirm the presence of any 'buffer ' with this 14 day treatment. As indicated in the report, there were twenty-one temperature readings below 2.5 ;C in the 3 ; C large-scale trial. While it s true that the average temperature readings for this study were mostly above 3 ;C (except for one probe in replicate 1 and seven probes in replicate 3), we do not approve commercial cold treatments that have even one pulp temperature reading that exceeds the maximum allowable treatment temperature (PPQ Treatment Manual, Ch. 3-7). Therefore, we are concerned about any out-of-range temperature readings occurring in research which could potentially be the basis for many operational treatments. 	<u>CONSIDERED BUT NOT INCORPORATED</u> The most of the average temperatures of fruit core temperature-sensors showed more than 3°C. This means that 3°C or below for 14 days-treatment schedule has some buffer because all of the fruit core temperature sensors must keep at 3°C or below. Actually, the fruit will be exposed to quite lower temperature than 3°C in the commercial treatment.
19	36	Schedule 2: 3 °C or below for 14 continuous days	C	3. In addition, the acceptable range for a USDA APHIS cold treatment of 3 ;C is 3.0 - 3.5 ;C. The study submitted by the New South Wales Department of Primary Industries allowed a range of 2.5-3.5 ;C. The temperature probe data submitted with this report revealed numerous times in which the temperature dropped below 3 ;C. In addition, another criterion for a cold treatment to pass is that "fruit pulp temperatures must be maintained at the temperature specified in the treatment schedule with no more than a 0.39 ;C (0.7 ;F) variation in temperature between two consecutive hourly readings." It is quite clear from the submitted temperature probe data that this occurred on numerous occasions. It appears to us that the refrigeration equipment used in these studies were not stable enough to maintain constant temperatures, which might bring into question the results of the study. <i>Category : TECHNICAL</i> Viet Nam Check evidence information, because for 14 days similar between 1 ;C and 3 ;C?	<u>CONSIDERED BUT NOT INCORPORATED</u> Both schedules (1°C 14 days and 3°C 14days) will be applied to Prunus persica and the efficacy level is
				Category : TECHNICAL	different between two schedules; $1^{\circ}C$ 14days (99.9928%) > $3^{\circ}C$ 14days (99.9917%).

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

20	37	For <i>Prunus avium</i> there is 95%	Р	China	MODIFIED
		confidence that the treatment			(see response in 17)
		according to this schedule mortality		Category : SUBSTANTIVE	
		prevents pupariation in not less than			
		99.9966% of eggs and larvae of			
		Bactrocera tryoni.			
21	38	For <i>Prunus domestica</i> there is 95%	Р	China	MODIFIED
		confidence that the treatment		Cotogon () CURCTANTINE	(see response in 17)
		according to this schedule prevents		Category : SUBSTANTIVE	
		pupariation mortality in not less			
		than 99.9953% of eggs and larvae			
		of Bactrocera tryoni.			
22	39	For <i>Prunus persica</i> there is 95%	Р	China	MODIFIED
		confidence that the treatment			(see response in 17)
		according to this schedule prevents		Category : SUBSTANTIVE	
		pupariation mortality in not less			
		than 99.9917% of eggs and larvae			
		of Bactrocera tryoni.			
23	40	For both schedules, the fruit must	Р	Japan	INCORPORATED
		reach the treatment temperature		As defined in section 4.2 of ISPM 42, the fruit core	Revised draft PT.
		before treatment exposure time		add "core" to clarify the monitoring point	
		commences. The fruit core		In TPs of cold treatment that have been adopted so far,	CONSIDERED BUT NOT INCORPORATED
		temperature should be monitored		"core" is not defined in their requirements. However, in TPs of	It was noted that some of the other cold treatments
		and recorded, and the temperature		vapor heat treatment (PT 21, 30-32), "core" is defined in their requirements as defined in ISPM 42 (Section 4.2.3)	do not specify to measure temperatures at the core.
		should not exceed the stated level		Therefore, TPs of cold treatment that have been adopted so	26, 27, 28 and 29) were worded according to the
		throughout the duration of the		far need to be revised where necessary.	research supporting them (depending on where the
		treatment.		Category : SUBSTANTIVE	temperature was measured).
Other rel	evant in	formation			
24	44	Schedules 1 and 2 were based on	Р	European Union	CONSIDERED BUT NOT INCORPORATED
		the work of NSW DPI (2008, (2008		A comma to be replaced with ' and'.	Action in accordance with the adopted ISPM 28-PTs
		and 2012) and developed using		Category : EDITORIAL	such as PT 22 and PT 23.
		failure to pupariate as the measure			
		of mortality.			
25	44	Schedules 1 and 2 were based on	Р	EPPO	CONSIDERED BUT NOT INCORPORATED
		the work of NSW DPI (2008, (2008		A comma to be replaced with ' and '.	Action in accordance with the adopted ISPM 28-PTs
		and 2012) and developed using		Calegory : EDITORIAL	Such as FT 22 driu FT 23.

		failure to pupariate as the measure of mortality.			
26	45	The efficacy of schedule 1 was calculated based on the following estimated treated numbers of treated <u>Bactrocera tryoni</u> with no survivors:	Ρ	European Union For clarity (see paragraph 75 and Appendix 8 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>	INCORPORATED Revised draft PT.
27	45	The efficacy of schedule 1 was calculated based on the following estimated treated numbers of treated <u>Bactrocera tryoni</u> with no survivors:	Р	EPPO For clarity (see paragraph 75 and Appendix 8 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>	INCORPORATED Revised draft PT.
28	47	The efficacy of schedule 2 was calculated based on the following estimated treated numbers of treated <u>Bactrocera tryoni</u> with no survivors:	Р	European Union For clarity (see paragraph 75 and Appendix 8 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>	INCORPORATED Revised draft PT.
29	47	The efficacy of schedule 2 was calculated based on the following estimated treated numbers of treated <u>Bactrocera tryoni</u> with no survivors:	Ρ	EPPO For clarity (see paragraph 75 and Appendix 8 of the 2018-06 TPPT report). <i>Category : EDITORIAL</i>	INCORPORATED Revised draft PT.
30	51	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>	<u>CONSIDERED BUT NOT INCORPORATED</u> Some adopted ISPM 28-PTs (PT 15, 16, 17, 18, 21, 25, 26, 27, 28, 29, 30, 31 and 32) have similar descriptions on varieties used in the mortality tests in the References.
31	51	Schedules 1 and 2 were developed using the following commodities and cultivars:	C	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	CONSIDERED BUT NOT INCORPORATED Some adopted ISPM 28-PTs (PT 15, 16, 17, 18, 21, 25, 26, 27, 28, 29, 30, 31 and 32) have similar descriptions on varieties used in the mortality tests in the References.

International Plant Protection Convention

				Category : TECHNICAL	
32	51	Schedules 1 and 2 were developed using the following commodities and cultivars:	C	COSAVE 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>	CONSIDERED BUT NOT INCORPORATED Some adopted ISPM 28-PTs (PT 15, 16, 17, 18, 21, 25, 26, 27, 28, 29, 30, 31 and 32) have similar descriptions on varieties used in the mortality tests in the References.
33	55	In this treatment, <i>Prunus persica</i> includes all cultivars and varieties, including nectarines (Vendramin <i>et al.</i> , 2014).	Ρ	European Union A dot and a comma are missing. Category : EDITORIAL	INCORPORATED Revised draft PT.
34	55	In this treatment, <i>Prunus persica</i> includes all cultivars and varieties, including nectarines (Vendramin <i>et</i> <i>al.</i> , 2014).	Р	EPPO A dot and a comma are missing. <i>Category : EDITORIAL</i>	INCORPORATED Revised draft PT.