

2005-004: Movement of growing media in association with plants for planting in international trade

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
1.	G	Editorial	The second part and the third part are incorporated into the forth part. ¥	The content of the second part and the third part are the factors that affect pest risk. So the structure is more reasonable after revise.	English	China
2.	G	Editorial	I support the document as it is and I have no comments		English	Bangladesh
3.	G	Editorial	I support the document as it is and I have no comments		English	New Zealand
4.	G	Editorial	I support the document as it is and I have no comments		English	Congo
5.	G	Editorial	I support the document as it is and I have no comments		Français	Congo
6.	G	Substantive	We propose to develop this ISPM as an appendix to ISPM 36 Risk associated to growing media will depend on the method of production of the PPP. The term soil should not be defined	This document should be an appendix of ISPM 36. Growing media is one of the production related factors that affect pest risk in the movement of plants for planting, mentioned in Annex 1 of ISPM 36. Growing media is a glossary term. If there is a need to specify that soil is a type of growing medium, it would be better to review the definition of "growing medium". On the other hand if soil is defined why not follow the same criteria for other types of growing media mentioned in this draft?. We suggest not to define each one and to keep the general definition of the glossary term "growing medium" Regarding to Appendix 1 of this draft that "Types of plants for planting in international trade and their commonly used growing media" are described, it should be specified if the growing media refers to the material in which plant grows or growing media used to ship the plants for planting, because not always PPP are shiped in growing media where they were produced (e.g. bare root nursery stock). In addition, unrooted cuttings should not be included because they are not associated with	English	Uruguay

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
				any growing media.		
7.	G	Substantive	We propose to develop this ISPM as an appendix to ISPM 36 Risk associated to growing media will depend on the method of production of the PPP. The term soil should not be defined	This document should be an appendix of ISPM 36. Growing media is one of the production related factors that affect pest risk in the movement of plants for planting, mentioned in Annex 1 of ISPM 36. Growing media is a glossary term. If there is a need to specify that soil is a type of growing medium, it would be better to review the definition of "growing medium". On the other hand if soil is defined why not follow the same criteria for other types of growing media mentioned in this draft?. We suggest not to define each one and to keep the general definition of the glossary term "growing medium" Regarding to Appendix 1 of this draft that "Types of plants for planting in international trade and their commonly used growing media" are described, it should be specified if the growing media refers to the material in which plant grows or growing media used to ship the plants for planting, because not always PPP are shiped in growing media where they were produced (e.g. bare root nursery stock). In addition, unrooted cuttings should not be included because they are not associated with any growing media.	English	COSAVE, Paraguay, Chile, Argentina, Brazil
8.	G	Substantive	 This standard is very important to the region given the fact that there are many requests for the importation of planting material in growing media especially for the tourist industry. The ISPM is relevant and it supplements ISPM 36 There should be a definition for soil in the glossary 	Soil is important and therefore there should be a definition in order to prevent an ambiguity.	English	Suriname
9.	G	Substantive	We propose to develop this ISPM as an appendix to ISPM 36 Risk associated to growing media will depend on the method of production of the PPP. The term soil should not be defined	This document should be an appendix of ISPM 36. Growing media is one of the production related factors that affect pest risk in the movement of plants for planting, mentioned in Annex 1 of ISPM 36. Growing media is a glossary term. If there is a need to specify that	English	Ecuador, Mexico, OIRSA, Belize,

Comm	. Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
10.	G		1. This standard is very important to the region given the fact that there are many requests f or the importation of planting material in growing media especially for the tourist industry.	soil is a type of growing medium, it would be better to review the definition of "growing medium". On the other hand if soil is defined why not follow the same criteria for other types of growing media mentioned in this draft?. We suggest not to define each one and to keep the general definition of the glossary term "growing medium" Regarding to Appendix 1 of this draft that "Types of plants for planting in international trade and their commonly used growing media" are described, it should be specified if the growing media refers to the material in which plant grows or growing media used to ship the plants for planting, because not always PPP are shiped in growing media where they were produced (e.g. bare root nursery stock). In addition, unrooted cuttings should not be included because they are not associated with any growing media. This is an important ISPM to the Caribbean Region.		Costa Rica Jamaica
			2. The ISPM is relevant and it supplements ISPM 36.			
11.	G	Substantive		Soil is important and therefore there should be a definition in order to prevent ambiguity.		Saint Kitts And Nevis
12.	G	Substantive	This draft should be the annex of ISPM 36.	It's not separate for consideration of pest risk between growing media and plants for planting when moving in international trade. So, the factors that affect the pest risk of growing media could be managed as one of the measure in	English	Thailand

Comm. no.	1	Comment	Comment	Explanation	Language	Country
10.	no.	type				
				integrated measures for plants for planting. (Annex I : ISPM 36)		
13.	G		Se desea manifestar la preocupación por este proyecto de NIMF dado que el contenido den ota que el suelo será tratado como un medio de crecimiento apto para el comercio internaci onal, a pesar de que en las legislaciones de muchos países el suelo está prohibido.	En muchos párrafos del proyecto se menciona al suelo como medio de crecimiento.	Español	El Salvador
14.	G	Substantive	 <u>This standard is very important to the region given the fact that there are many requests for the importation of planting material in growing media especially for the tourist industry.</u> <u>The ISPM is relevant and it supplements ISPM 36</u> <u>There should be a definition for soil in the glossary</u> 	Soil is important and therefore there should be a definition in order to prevent an ambiguity.	English	Trinidad and Tobago
15.	G	Substantive		Suggest incorporating a column into Annex 1 with treatments that can be used for each type of growing media in association with plants for planting. The NPPOs would benefit from this additional information by providing harmonized guidance on treatments for growing media. This would also benefit developing countries to apply the appropriate treatments to the different growing media types. For Appendix 2, we suggest further expanding this list to provide more useful information to NPPOs. The draft inadequately addresses the risk of the movement of pests in growing media for two main reasons: 1) Sand, silt, gravel, and clay are not low risk. Mixing these ingredients and you would get soil. All growing media in international trade should preferably be heat treated or fumigated. If this is done properly, then all types of media would be low risk to start with (including organic matter such as peat). 2) Even a medium that is practically sterile prior to plant production, like perlite or vermiculite, will accumulate microbial flora and fauna (including pests) unless extreme precautions are taken (e.g, tissue culture). Systems approaches are needed to reduce pest risk.		United States of America

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no.	no.	type				
16.	G	Substantive	 This standard is very important to the region given the fact that there are many requests for the importation of planting material in growing media especially for the tourist industry. The ISPM is relevant and it supplements ISPM 36 There should be a definition for soil in the glossary 	Soil is important and therefore there should be a definition in order to prevent any ambiguity.	English	Barbados
17.	G	Substantive	 <u>This standard is very important to Dominica and the Caribbean Region given</u> <u>the fact that there are many requests for the importation of planting material in</u> <u>growing media especially for the tourist industry.</u> <u>The ISPM is relevant and it supplements ISPM 36</u> <u>There should be a definition for soil in the glossary</u> 	Soil is important and therefore there should be a definition in order to prevent an ambiguity.	English	Dominica
18.	G		We propose to develop this ISPM as an appendix to ISPM 36 Risk associated to growing media will depend on the method of production of the PPP. The term soil should not be defined	This document should be an appendix of ISPM 36. Growing media is one of the production related factors that affect pest risk in the movement of plants for planting, mentioned in Annex 1 of ISPM 36. Growing media is a glossary term. If there is a need to specify that soil is a type of growing medium, it would be better to review the definition of "growing medium". On the other hand if soil is defined why not follow the same criteria for other types of growing media mentioned in this draft?. We suggest not to define each one and to keep the general definition of the glossary term "growing medium" Regarding to Appendix 1 of this draft that "Types of plants for planting in international trade and their commonly used growing media" are described, it should be specified if the growing media refers to the material in which plant grows or growing media used to ship the plants for planting, because not always PPP are shiped in growing media where they were produced (e.g. bare root nursery stock). In	English	Peru

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no.	no.	type				
				addition, unrooted cuttings should not be included because they are not associated with any growing media.		
19.	G	Technical	The guidance provided is easy to operate practically.	The standard will be very useful for the management of growing media accompanying plant seedlings in international trade.	English	China
20.	G	Technical	Utilidad del Apéndice 2 de la NIMF: podría servir de referencia, pero no es comprensivo en grado satisfactorio;	En respuesta a las preguntas del Coordinador de la norma.	Español	El Salvador
			Cuan extensivo debería de ser: convendría que fuera más específico, indicando las plagas más frecuentes a nivel de género, nobstante se reconoce la complejidad para lograr esto.			
21.	G	Translation	Ciertos términos no se han traducido en forma apropiada en este proyecto de NIMF	Por ejemplo: "commodity" se ha traducido como "producto básico" y debe traducirse como "producto" (párrafos 10)	Español	El Salvador
22.	1	Editorial	Movement of Pest risk management for growing media in association with plants for planting in international trade (2005-004)	It's widely known that all of the ISPMs concerned with international trade, so it's not necessary to have "movement of and international trade" in the title.	English	Thailand
23.	1	Technical	Movement of gGrowing media in association with plants for planting in international trade (2005-004)	International trade involves the movement, so text deleted is redundant.	English	Uruguay
24.	1	Technical	Movement of g <u>G</u> rowing media in association with plants for planting in international trade (2005-004)	International trade involves the movement, so text deleted is redundant.	English	COSAVE, Paraguay, Chile, Argentina, Brazil
25.	1	Technical	Movement of gGrowing media in association with plants for planting in international trade (2005-004)	International trade involves the movement, so text deleted is redundant.	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
26.	1	Technical	Movement of gGrowing media in association with plants for planting in international trade (2005-004)	International trade involves the movement, so text deleted is redundant.	English	Peru
27.	3	Editorial	Voir la version anglaise de la présente norme.	Harmoniser la présente norme en y incluant les étapes de la publication en langue française	Français	Gabon

Comm. no.		Comment type	Comment	Explanation	Language	Country
	10.	(ypc				
28.	5	Translation	Adoption	"Adoption" should be translated into Spanish as "adopción"	English	Uruguay
29.	5	Translation	Adoption	"Adoption" should be translated into Spanish as "adopción"		COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
30.	5	Translation	Adoption	"Adoption" should be translated into Spanish as "adopción"	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
31.	5	Translation	Adopción <mark>Aprobación</mark>	Término usado generalmente	Español	El Salvador
32.	6	Translation	This standard was adopted by the Commission on Phytosanitary Measures in [Month 201-].	"adopted" should be translated as "adoptado" in the Spanish version	English	Uruguay
33.	6	Translation	This standard was adopted by the Commission on Phytosanitary Measures in [Month 201-].	"adopted" should be translated as "adoptado" in the Spanish version	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
34.	6	Translation	This standard was adopted by the Commission on Phytosanitary Measures in [Month 201-].	"adopted" should be translated as "adoptado" in the Spanish version	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
35.	6	Translation	La presente norma fue <u>adoptada</u> aprobada por la Comisión de Medidas Fitosanitarias en [mes de 201-].	Para coincidir con el título del apartado	Español	El Salvador
36.	7	Editorial	IntroductionINTRODUCTION	It should be capital letter same as the other ISPMs.	English	Thailand

			Comment	Explanation	Language	Country
10.	no.	type				
37.	9	Editorial	This standard provides guidance for the evaluation of pest risks <u>associated withof</u> growing media <u>in association with accompanying pp</u> lants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international movement of plants for planting.	To be consistent with the title.	English	Singapore
38.	9	Editorial		Scope should be consistent with the title (i.e. association with (not accompanying))	English	Malaysia
			association with plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international trade			
39.	9	Editorial	This standard provides guidance for the evaluation of pest risks associated with growing media accompanying plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international movement of plants for planting.	Consistency	English	Korea, Republic of
			This standard provides guidance for the evaluation of pest risks of growing media in association with plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international trade			
40.	9	Editorial		This is the regional comment made by the 14th APPPC Regional Workshop on Review of draft ISPMs. Scope should be consistent with the title.	English	Japan
41.	9	Substantive	This standard provides guidance for the evaluation pest risks associated with of growing media accompanying in association with plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used with plant for planting in the international trade. movement of plants for planting.	The scpoe should explain the objective of the standard. Language should be consistent with the title.	English	Thailand
42.	9	Technical	This standard provides guidance for <u>assessment of pest risks</u> the evaluation of pest risks associated <u>linked</u> with growing media accompanying plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international movement of plants for planting.	for consistency with ISPM 5, and for consistency with PRA procedure	English	EPPO, Estonia, Norway, Algeria
43.	9	Technical	This standard provides guidance for the <u>assessment</u> evaluation of pest risks associated with growing media accompanying plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international movement	This is to be consistent in keeping with ISPM 5	English	Suriname, Jamaica,

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no.	no.	type				
			of plants for planting.			Trinidad and Tobago, Dominica
44.	9		This standard provides guidance for the <u>assessment</u> <u>evaluation</u> of pest risks associated with growing media accompanying plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international movement of plants for plants for planting.	This is more consistent with ISPM 5	English	Saint Kitts And Nevis
45.	9		La presente normaproporciona directrices para evaluar los riesgos de plagas asociados a los medios de crecimiento que acompañan a las plantas para plantar y describe medidas fitosanitarias encaminadas a facilitar el manejo del riesgo de plagas reglamentadas asociado a tales medios de crecimiento utilizados en el movimiento internacional de plantas para plantar.	Término más apropiado. El manejo del riesgo se aplica a plagas reglamentadas	Español	El Salvador
46.	9		This standard provides guidance for the <u>assessment</u> evaluation of pest risks associated with growing media accompanying plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international movement of plants for plants for planting.	This is to be consistent in keeping with ISPM 5	English	Barbados
47.	9		This standard provides guidance for the <u>assessment</u> evaluation of pest risks associated with growing media accompanying plants for planting and describes phytosanitary measures to facilitate pest risk management of such growing media used in the international movement of plants for plants for plants for plants for plants.	Consistency in keeping with ISPM 5	English	Guyana
48.	9			For consistency with ISPM 5, and for consistency with PRA procedure.	English	European Union
49.	9		La presente normaproporciona directrices para evaluar los riesgos de plagas asociados a los medios de crecimiento que acompañan a las plantas para plantar y describe medidas fitosanitarias <u>para encaminadas</u> a facilitar el manejo del riesgo de plagas asociado a tales medios de crecimiento utilizados en el movimiento internacional de plantas para plantar.	Término más apropiado	Español	El Salvador
50.	10		Bulk growing media and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with caused from growing media are also not considered.	more appropriate words	English	Thailand

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
51.	10		Bulk growing media <u>, and growing media as</u> a contaminant or ascontamination packaging, material of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered., However, other relevant authorities may apply.	Sometimes the plant for planting can be shipped in packaging material that supports plant growth or root development, so this needs to be clarified in the scope. It is referred to in the ISPM 5 definition of "contamination", and this is not limited to commodities only. Adding this last sentence for clarification.	English	United States of America
52.	10		Les milieux de culture en vrac et les milieux de culture contaminants pour les marchandises ne sont pas pris en compte dans la présente norme. De même, les risques pour la santé animale et humaine associés aux milieux de culture ne sont pas pris en compte.	Les milieux de culture en vrac et les milieux de culture contaminants [] en compte dans la présente norme: Expliquer ces deux expressions pour davantage de clarté	Français	Gabon, Congo, DR*
53.	10		Les milieux de culture en vrac et les milieux de culture contaminants pour les marchandises ne sont pas pris en compte dans la présente norme. De même, les risques pour la santé animale et humaine associés aux milieux de culture ne sont pas pris en compte.	Expliquer ces deux expressions pour davantage de clarté	Français	Burundi
54.	10		GBulk growing media moved as a separate commodity and growing media as contaminatingen of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	1) Proposed clearer wording 2) Proposed better english 3)The statement that aspects beyond plant health are not covered is not relevant and never spelled out in ISPMs' scope section, because there is no expectation that an ISPM should cover such aspects.	English	EPPO, Estonia, Norway
55.	10		Bulk gGrowing media as a commodity and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	Not only bulk growing media is moved in international trade, but also packed growing media. What is important to mention here is that growing media as a commodity or contaminating commodities are not considered in this draft.	English	Uruguay
56.	10	Technical	Bulk <u>gG</u> rowing media <u>as a commodity</u> and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	Not only bulk growing media is moved in international trade, but also packed growing media. What is important to mention here is that growing media as a commodity or contaminating commodities are not considered in this draft.	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
57.	10		media are also not considered.	Not only bulk growing media is moved in international trade, but also packed growing media. What is important to mention here is that growing media as a commodity or contaminating commodities are not considered in this draft.		Ecuador, Mexico, Belize, Costa Rica
58.	10		Bulk <u>gG</u> rowing media <u>as a commodity</u> and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with growing		English	OIRSA

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
			media are also not considered.	media. What is important to mention here is that growing media as a commodity or contaminating commodities are not considered in this draft.		
59.	10	Technical	<u>G</u> Bulk growing media moved as a separate commodity and growing media as contaminating on of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	1) Proposed clearer wording. 2) Proposed better English. 3)The statement that aspects beyond plant health are not covered is not relevant and never spelled out in ISPMs' scope section, because there is no expectation that an ISPM should cover such aspects.	English	European Union
60.	10	Translation	Bulk growing media and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	"commodity" should be translated into Spanish as "producto"	English	Uruguay
61.	10	Translation	Bulk growing media and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	"commodity" should be translated into Spanish as "producto"	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
62.	10	Translation	Bulk growing media and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	"commodity" should be translated into Spanish as "producto"	English	Ecuador, Mexico, Belize, Costa Rica
63.	10	Translation	Bulk growing media and growing media as contamination of a commodity are not considered in this standard. Animal and human health risks associated with growing media are also not considered.	"commodity" should be translated into Spanish as "producto"	English	OIRSA
64.	11	Editorial	Impact on Biodiversity and the Environment	Moved to para 34	English	Malaysia
65.	11	Editorial	Impact on Biodiversity and the Environment	Moved to para 34	English	Korea, Republic of
66.	11	Editorial	Impact on Biodiversity and the Environment	Moved to para 34	English	Viet Nam
67.	11	Substantive	Impact on Biodiversity and the Environment	This portion including the 2 associated paragraphs should not be under th Scope & rather move to under the Background to highight the concerns on biodiversity & the environment.	English	Singapore

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
68.	11	Substantive	Impact on Biodiversity and the Environment	This section is not appropriate after the scope, it should be moved to background section.	English	Thailand
69.			Regulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	Moved to para 34	English	Malaysia
70.	12	Editorial	Regulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	Moved to para 34	English	Korea, Republic of
71.	12			Add a new sentence in replacement of Appendix 2 which is incomplete and could be misleading.	English	Canada
72.	12	Editorial	Regulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	Moved to para 34	English	Viet Nam
73.	12	Substantive	QuarantineRegulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of <u>quarantineÂ</u> pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	Only quarantine pests associated with growing media can be introduced and spread (ISPM 5).	English	Uruguay

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10.	no.	type				
74.	12	Substantive	QuarantineRegulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of <u>quarantineÂ</u> pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	Only quarantine pests associated with growing media can be introduced and spread (ISPM 5).		COSAVE, Paraguay, Chile, Argentina, Peru, Brazi
75.	12	Substantive	QuarantineRegulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of <u>quarantineÂ</u> pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	Only quarantine pests associated with growing media can be introduced and spread (ISPM 5).	English	Ecuador, Mexico, Belize, Costa Rica
76.	12	Substantive	planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of pests associated with	These 2 paragrahs should be moved to under the Background after para 34 instead as it is not consistent with the format of all approved standards even though the emphasis is to highlight the biodiversity and environment.	English	Singapore
7.	12	Substantive	Regulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	It should be moved to background section.	English	Thailand
8.	12	Substantive	Regulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity (see Appendix 2). Implementation of this standard could significantly reduce the introduction and spread of pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	Adding reference to Appendix 2 helps substantiate this statement.	English	United States of America
79.	12	Technical	Regulated_pePests associated with the movement of growing media associated withaccompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of pests associated with growing media and consequently reduce	1) Pests do not need to be regulated to have an impact on biodiversity. 2) recommended change of "accompagnying" with "associated with" in all the document: to reflect the fact that pests do not		EPPO, Estonia, Norway

Comm. no.	1	Comment type	Comment	Explanation	Language	Country
			their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.	always accompany plants.		
80.	12	Technical	Regulated pePests associated with the movement of growing media associated with accompanying plants for planting in international trade may have negative	impact on biodiversity. 2) recommended change of "accompagnying" with "associated with" in all the document: to reflect the fact that pests do not	English	European Union
81.	13	Editorial	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	Moved to para 34	English	Malaysia
82.	13	Editorial	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	Moved to para 34	U U	Korea, Republic of
83.	13	Editorial	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	Moved to para 34	English	Viet Nam
84.	13	Substantive	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	Deleted because these are not a good examples because this type of measure is not applied to PPP in growing media.	English	Uruguay
85.	13	Substantive	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	Deleted because these are not a good examples because this type of measure is not applied to PPP in growing media.		COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
86.	13	Substantive	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	Deleted because these are not a good examples because this type of measure is not applied to PPP in growing media.		Ecuador, Mexico, OIRSA, Belize, Costa Rica
87.	13	Substantive	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of	This paragraph shoul dbe moved to after para 34 under Background to be consistent with all	English	Singapore

Comm. no.		Comment type	Comment	Explanation	Language	Country
			phytosanitary measures that have a minimal negative impact on the environment.	approved ISPMs.	1	
88.	13	Substantive	Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	It should be moved to background section.	English	Thailand
89.	13		Certain pest risk management phytosanitary measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	For consistency	English	Uruguay
90.	13		Certain pest risk management phytosanitary measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	For consistency	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
91.	13		Certain pest risk management phytosanitary measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	For consistency	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
92.	13		Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	"that have a minimal negative impact on the environment" should be translated into Spanish as "que tengan el mínimo impacto negativo sobre el ambiente"	English	Uruguay
93.	13		Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	"that have a minimal negative impact on the environment" should be translated into Spanish as "que tengan el mínimo impacto negativo sobre el ambiente"	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
94.	13		Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment.	"that have a minimal negative impact on the environment" should be translated into Spanish as "que tengan el mínimo impacto negativo sobre el ambiente"	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica

	1	Comment	Comment	Explanation	Language	Country
no.	no.	type				
95.	14	Substantive	References	Add reference to ISPM 21. See US comment on paragraph 37.	English	United States of America
96.	17	Editorial	ISPM 11. 20 <u>13</u> 04. <i>Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms. Rome, IPPC, FAO.</i>	Current version of ISPM 11	English	Uruguay
97.	17	Editorial	ISPM 11. 20 <u>13</u> 04. Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms . Rome, IPPC, FAO.	Current version of ISPM 11	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
98.	17	Editorial	ISPM 11. 20 <u>13</u> 04. Pest risk analysis for quarantine pests including analysis of onvironmental risks and living modified organisms . Rome, IPPC, FAO.	Current version of ISPM 11	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
99.	17	Editorial	ISPM 11. 20 <u>13</u> 04. Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms . Rome, IPPC, FAO.	Change the reference to the new title	English	NEPPO, Morocco
100.	17	Editorial	ISPM 11. 2004. Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms. Rome, IPPC, FAO. ISPM 14. 2002. The use of integrated measures in a systems approach for pest risk	ISPM 14 is now referred to under section 5. and therefore shoud be listed in the reference section of this standard.	English	Canada
101.	17	Editorial	management. Rome, IPPC, FAO. ISPM 11. 20 <u>13</u> 04. Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms. Rome, IPPC, FAO.	Change the reference to the new title	English	Algeria
102.	17	Technical	ISPM 112004 2013. Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms. Rome, IPPC, FAO.	ISPM 11 was revised in 2013 and its title changed.	English	EPPO
103.	17	Technical	ISPM 11. 2004 2013. Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms. Rome, IPPC, FAO.	ISPM 11 was revised in 2013 and its title changed.	English	European Union
104.	17	Technical	ISPM 11 <u>2004 2013</u> . Pest risk analysis for quarantine pests including analysis of environmental risks and living modified organisms. Rome, IPPC, FAO.	ISPM 11 was revised in 2013 and its title changed.	English	Norway, Algeria

Comm. no.		Comment type	Comment	Explanation	Language	Country
110.	110.	type				
105.	23	Editorial	Definitions of phytosanitary terms can be found in ISPM 5 (<i>Glossary of phytosanitary terms</i>); revised annually) .	for clarity	English	Ghana
106.	24	Substantive	In addition to the definitions in ISPM 5, in this standard the following definition applies:	Deleted paragraph because proposed changes in paragraph 25	English	Uruguay
107.	24	Substantive	In addition to the definitions in ISPM 5, in this standard the following definition applies:	Deleted paragraph because proposed changes in paragraph 25	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
108.	24	Substantive	In addition to the definitions in ISPM 5, in this standard the following definition applies:	Deleted paragraph because proposed changes in paragraph 25	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
109.	24	Substantive	In addition to the definitions in ISPM 5, in this standard the following definitions appliesy: Peat: the non-viable, incompletely decomposed organic residue of plants, mostly Sphagnum mosses, which accumulates under anaerobic and acidic conditions usually in saturated bogs in temperate and cold regions and often to depths of 2-6 metres.	There is no definition of "peat" in ISPM No. 5 therefore the term should be defined in this document as it is often use as a growing medium and there is a need to clarify the term in order to avoid confusion.	English	Canada
110.	25		Soil: A growing medium that is naturally occurring, composed of the loose surface material of the earth and consisting of a mixture of minerals and organic material.	Eppo does not know if this definition will get consensus support, although appreciate the difficulty of finding one that is satisfactory. Eppo support sthis definition.	English	EPPO, Estonia, Algeria
111.			Soil: A growing medium that is naturally occurring, composed of the loose surface material of the earth and consisting of a mixture of minerals and organic material.	Growing media is a glossary term. If there is a need to specify that soil is a type of growing medium, it would be better to review the definition of "growing medium". On the other hand if soil is defined other types of growing media should also be defined because they are used in this draft, so that we suggest not to define each one and keep only the general definition of growing medium	English	Uruguay
112.	25	Substantive	Soil: A growing medium that is naturally occurring, composed of the loose surface material	Growing media is a glossary term. If there is a need to specify that soil is a type of growing medium, it would be better to review the	English	COSAVE, Paraguay,

		Comment type	Comment	Explanation	Language	Country
			of the earth and consisting of a mixture of minerals and organic material.	definition of "growing medium". On the other hand if soil is defined other types of growing media should also be defined because they are used in this draft, so that we suggest not to define each one and keep only the general definition of growing medium		Chile, Argentina, Peru, Brazil
113.	25	Substantive	Seil: A growing medium that is naturally occurring, composed of the loose surface material of the earth and consisting of a mixture of minerals and organic material.	Growing media is a glossary term. If there is a need to specify that soil is a type of growing medium, it would be better to review the definition of "growing medium". On the other hand if soil is defined other types of growing media should also be defined because they are used in this draft, so that we suggest not to define each one and keep only the general definition of growing medium	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
114.	25	Substantive	Soil: A growing medium that is naturally occurring, composed of the loose surface material of the earth and consisting of a mixture of minerals and organic material. It was proposed that naturally occurring should not be deleted in ISPM No.5 Glossary of phytosanitary terms because it is used in this new standard OR	This affects the definition of the soil given in this standard	English	Mozambiqu e, Ghana, Lesotho
			To replace the word/phrase naturally occurring to realign it with the revision in the Glosaary of Phytosanitary terms.			
115.	25	Substantive	Soil: A growing medium that is naturally occurring, composed of the loose surface material of the earth and consisting of a mixture of minerals and organic material.	Recommend this definition is added to ISPM 5 after adoption.	English	United States of America
116.	25		Sol: Milieu de culture présent naturellement, composé de la couche superficielle meuble de la croûte terrestre et consistant en un mélange de matières minérales et de matières organiques.	Améliorer la compréhension du document	Français	Gabon, Congo, DR*
			Ajouter dans ce paragraphe les définitions de:			
			- Milieux de culture en vrac			
			- Milieux de culture contaminant			

	1	Comment type	Comment	Explanation	Language	Country
	110.	rype				
117.	25	Substantive	Soil: A growing medium that is naturally occurring, composed of the loose surface material of the earth and consisting of a mixture of minerals and organic material.	EU supports this definition.	English	European Union
118.	25		Soil: A growing medium that is naturally occurring, composed of the loose surface material of the earth and consisting of a mixture of minerals and organic material.	The term "naturally occuring" is proposed to be deleted in the draft amendment to ISPM 15: Glossary of Phytosanitary terms. It is therefore requested that clarification be provided on the terminology "naturally occuring" on how it will be defined under this paragraph or that the definition must not be deleted from ISPM 5.	English	South Africa
119.	25	Technical	Soil: A growing medium that is naturally occurring, composed of the <u>upper</u> loose surface material of the earth and consisting of a mixture of minerals, <u>lving organisms and</u> -and organic material.	Make the definition more complete	English	Suriname, Dominica
120.	25	Technical	Soil: A growing medium that is naturally occurring, composed of the <u>upper</u> loose surface material of the earth and consisting of a mixture of minerals, <u>living organisms and</u> and organic material.	Make the definition more complete	English	Jamaica
121.	25	Technical	Soil: A growing medium that is naturally occurring, composed of the <u>upper</u> loose surface material of the earth and consisting of a mixture of minerals, <u>living organisms and</u> -and organic material.	Makes the definition more complete	English	Saint Kitts And Nevis
122.	25	Technical	Soil: A growing medium that is naturally occurring, composed of the <u>upper</u> loose surface material of the earth and consisting of a mixture of minerals, <u>living organisms and</u> and organic material.	Make the definition more complete	English	Trinidad and Tobago
123.	25	Technical	Soil: A growing medium that is naturally occurring, composed of the <u>upper</u> loose surface material of the earth and consisting of a mixture of minerals, <u>lving organisms and</u> -and organic material.	Makes the definition more complete	English	Barbados
124.	25	Translation	Suelo: medio de crecimiento presente naturalmente, compuesto por el material suelto <u>superficial de la superficie</u> de la tierra y consistente en una mezcla de minerales y materia orgánica.	Para mayor clarida	Español	El Salvador
125.	25	Translation	Soil: A growing medium that is naturally occurring, composed of the loose surface material	In the French version of the draft standard, soil ("sol") is defined but not the term "terre" which is	English	Canada

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
-			of the earth and consisting of a mixture of minerals and organic material.	used throughout the text of the draft standard. Replace the word "sol" in the definition by "terre" to reflect the common use and for consistency across the text.		
			Terre: Milieu de culture présent naturellement, composé de la couche superficielle meuble			
			de la croûte terrestre et consistant en un mélange de matières minérales et de matières			
	<u> </u>		organiques.			
126.	27	Substantive	Pest risk analysis (PRA) , which is carried out by the national plant protection organization (NPPO) of the importing country, should provide the technical justification for phytosanitary import requirements for regulated pests associated with the international movement of growing media accompanying plants for planting.	Either the importing or exporting country can carry out the PRA.	English	United States of America
127.	27	Technical	Pest risk analysis (PRA), which is carried out by the national plant protection organization (NPPO) of the importing country, should provide the technical justification for phytosanitary import requirements for regulated pests associated with the international movement of growing media accompanying plants for planting.	Better wording, not to be read as an encouragement to import the pests themselves.	English	EPPO, Norway
128.	27	Technical	Pest risk analysis (PRA), which is carried out by the national plant protection organization (NPPO) of the importing country, should provide the technical justification for phytosanitary import requirements for regulated guarantine pests associated with the international movement of growing media accompanying plants for planting.	Quarantine pests are the relevant pests associated with growing media	English	Uruguay
129.	27	Technical	Pest risk analysis (PRA), which is carried out by the national plant protection organization (NPPO) of the importing country, should provide the technical justification for phytosanitary import requirements for regulated <u>quarantine</u> pests associated with the international movement of growing media accompanying plants for planting.	Quarantine pests are the relevant pests associated with growing media	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
130.	27	Technical	Pest risk analysis (PRA), which is carried out by the national plant protection organization (NPPO) of the importing country, should provide the technical justification for phytosanitary import requirements for regulated guarantine pests associated with the international movement of growing media accompanying plants for planting.	Quarantine pests are the relevant pests associated with growing media	English	Ecuador, Mexico, Belize, Costa Rica
131.	27	Technical	Pest risk analysis (PRA), which is carried out by the national plant protection organization (NPPO) of the importing country, should provide the technical justification for phytosanitary import requirements for regulated pests associated with the international movement of growing media accompanying plants for planting.	Better wording, not to be read as an encouragement to import the pests themselves.	English	European Union

	1	Comment type	Comment	Explanation	Language	Country
132.	27		Pest risk analysis (PRA), which is carried out by the national plant protection organization (NPPO) of the importing country, should provide the technical justification for phytosanitary import requirements for regulated pests associated with the international movement of growing media accompanying plants for planting.	Brackets should be deleted in the Spanish version for consistency with English version	English	Ecuador, OIRSA, Belize, Costa Rica
133.	28		The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to which prevent contamination. Growing media should be treated by an approved method before use if previously exposed to plants or soil.	Better English	English	EPPO, Algeria
134.	28		The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should be treated by an <u>appropriate</u> method before use if previously exposed to plants or soil.	For consistency with paragraph 43	English	Mozambiqu e, Ghana, Lesotho
135.	28		The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to which prevent contamination. Growing media should be treated by an approved method before use if previously exposed to plants or soil.	Better English	English	European Union
136.	28		The origin and the production methods of <u>constituents</u> , <u>components</u> of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should be treated by an <u>NPPO-</u> approved method before use if previously exposed to plants or soil.	"component". Component is a more commonly	English	United States of America, Mexico
137.	28		The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should be treated by an appropriate approved method before use if previously exposed to plants or soil.	Suggest that the word "approved" be deleted and replaced with "appropriate" as also used in paragraph 43 for consistency.	English	South Africa
138.	28		The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media	Not always will be treated, growing media will be treated if exposed to plants or soil. "Method" was	English	Uruguay

Comm no.		Comment type	Comment	Explanation	Language	Country
			used with plants for planting. Growing media should_be produced, stored and maintained under conditions to prevent contamination. Growing media <u>should_may</u> be treated by an approved <u>method_treatment</u> before use if previously exposed to plants or soil.	changed by "treatment" for consistency with ISPM 5		
139.	28	Technical	The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should may be treated by an approved method treatment before use if previously exposed to plants or soil.	Not always will be treated, growing media will be treated if exposed to plants or soil. "Method" was changed by "treatment" for consistency with ISPM 5		COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
140.	28	Technical	The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should_be produced, stored and maintained under conditions to prevent contamination. Growing media should_may be treated by an approved method_treatment_before use if previously exposed to plants or soil.	Not always will be treated, growing media will be treated if exposed to plants or soil. "Method" was changed by "treatment" for consistency with ISPM 5		Ecuador, OIRSA, Belize, Costa Rica
141.	28	Technical	The origin and the production methods of constituents of growing media , which can be used alone or in combination, <u>can both</u> affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should be treated by an approved method before use if previously exposed to plants or soil.	It is not clear what this text was intending to say. If it is only that the source and methods are factors that influence pest risk, then the better language may be to state that these can both influence pest risk	English	Australia
142.	28	Translation	The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should be treated by an approved method before use if previously exposed to plants or soil.	Brackets should be deleted in the Spanish version	English	Uruguay
143.	28	Translation	The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should be treated by an approved method before use if previously exposed to plants or soil.	Brackets should be deleted in the Spanish version		COSAVE, Paraguay, Chile, Argentina,

		Comment type	Comment	Explanation	Language	Country
						Peru, Brazi
144.	28		The origin and the production methods of constituents of growing media, which can be used alone or in combination, affect the pest risks that are associated with the growing media used with plants for planting. Growing media should be produced, stored and maintained under conditions to prevent contamination. Growing media should be treated by an approved method before use if previously exposed to plants or soil.	Brackets should be deleted in the Spanish version	English	Ecuador, OIRSA, Belize, Costa Rica
145.	29	Editorial	Production methods of plants for planting may alter <u>vary</u> the pest risks of growing media used with these plants for planting.	To clarify	English	Uruguay
146.	29	Editorial	Production methods of plants for planting may alter <u>vary</u> the pest risks of growing media used with these plants for planting.	To clarify	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
147.	29	Editorial	Production methods of plants for planting may alter <u>vary</u> the pest risks of growing media used with these plants for planting.	To clarify	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
148.	29	Substantive	Production methods of plants for planting may alter the pest risks of growing media used with these plants for planting.	Not necessary, repetitive, covered in other sections	English	United States of America
149.	29	Technical	Production methods of plants for planting may alter the pest risks of growing media associated used with these plants for planting.	for clarity (see [12])	English	EPPO, Estonia, Norway, Algeria
150.	29	Technical	Production methods of plants for planting may alter the pest risks of growing media associated used with these plants for planting.	For clarity (see [12]).	English	European

		Comment type	Comment	Explanation	Language	e Country
						Union
151.	30		Various pest risk management options related to growing media in association with plants for planting – including phytosanitary measures such as treatment, inspection, sampling, testing, integrated measures in a systems approach, post-entry quarantine and prohibition – are described in this standard.	This measure is not described in this standard and not applicable to growing media.	English	Uruguay
152.	30		Various pest risk management options related to growing media in association with plants for planting – including phytosanitary measures such as treatment, inspection, sampling, testing, integrated measures in a systems approach, post-entry quarantine and prohibition – are described in this standard.	This measure is not described in this standard and not applicable to growing media.	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
153.	30		Various pest risk management options related to growing media in association with plants for planting – including phytosanitary measures such as treatment, inspection, sampling, testing, integrated measures in a systems approach , post-entry quarantine and prohibition – are described in this standard.	This measure is not described in this standard and not applicable to growing media.	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
154.	30		Various Ppest risk management options related to growing media in association with plants for planting – including production methods and phytosanitary measures forsuch as treatment, inspection, sampling, testing, integrated measures in a systems approach, postentry quarantine and prohibition – are described in this standard.	"Various" is unnecessary. Need to clarify in the outline of requirements that the standard also covers production methods. Propose deleting post entry quarantine. See US comments in paragraph 67.	English	United States of America
155.	32		Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate the movement of growing media, particularly soil or soil as a <u>constituent</u> component of growing media.	Consistent with other mentions in the text	English	EPPO
156.	32		Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate the international movement of growing media in association with plants for planting. , particularly soil or soil as a component of growing media.	media	English	Uruguay

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
157.	32	Editorial	Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate the international movement of growing media in association with plants for planting. , particularly soil or soil as a component of growing media.	media	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
158.	32	Editorial	Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate the movement of growing media, particularly soil or soil as a component of growing media.		English	Australia
159.	32	Editorial	Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate the movement of growing media, particularly soil or soil as a <u>constituent component</u> of growing media.		English	European Union
160.	32	Editorial	Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate the movement of growing media, particularly soil or soil as a <u>constituent</u> component of growing media.		English	Norway, Algeria
161.	32	Substantive	Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate theinternational movement of growing media in association with plants for planting, particularly soil or soil as a component of growing media.	According to ISPM 5 soil is a type of growing media.	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
162.	32	Substantive	Lae Secrétariat de la CIPV définit le concept de «milieu de culture» comme suit: «Toute matière dans laquelle poussent les racines de végétaux, ou qui est destinée à cet effet» (NIMP 5). De nombreux pays se sont dotés d'une législation réglementant le transport des milieux de culture, en particulier la terre ou la terre en tant que composant d'un milieu de culture.	Pour davantage de précision	Français	Mauritania
163.	32	Substantive	Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purposeâ€● (in ISPM 5). Many countries have legislation in place to regulate the movement of growing media, particularly soil or soil as a component of growing media.	The definition for growing media is already defined in ISPM 5. It should not be defined in the standard.	English	United States of America
164.	32	Substantive	Le Secrétariat de ILa CIPV définit le concept de «milieu de culture» comme suit: «Toute matière dans laquelle poussent les racines de végétaux, ou qui est destinée à cet effet»	Pour davantage de précision	Français	Gabon,

	1	Comment type	Comment	Explanation	Language	Country
			(NIMP 5). De nombreux pays se sont dotés d'une législation réglementant le transport des milieux de culture, en particulier la terre ou la terre en tant que composant d'un milieu de culture.			Congo, DR*
65.	32	Substantive	Le Secrétariat de la CIPV définit le concept de «milieu de culture» comme suit: «Toute matière dans laquelle poussent les racines de végétaux, ou qui est destinée à cet effet» (NIMP 5). De nombreux pays se sont dotés d'une législation réglementant le transport des milieux de culture, en particulier la terre ou la terre en tant que composant d'un milieu de culture.	Pour plus de précision	Français	Burundi
66.	32	Technical	Growing medium is defined by the IPPC as "any material in which plant roots are growing or intended for that purpose" (ISPM 5). Many countries have legislation in place to regulate the movement of growing media, particularly soil or soil as a component of growing media.		English	Australia
67.	33	Editorial	A number of growing media are recognized internationally as high-risk pathways for the introduction and spread of quarantine pests. Soil as a growing medium is considered to be a high-risk pathway because it can harbour numerous pests of phytosanitary concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the separation_distance between the country of origin and the country of import.		English	Ghana
68.	33	Editorial	A number of growing media are recognized internationally as high-risk pathways for the introduction and spread of <u>quarantine regulated</u> pests. Soil as a growing medium is considered to be a high-risk pathway because it can harbour numerous pests of phytosanitary concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the separation between the country of origin and the country of import.	To ensure consistency between paragraphs [12] and [27].	English	Japan
69.	33	Editorial	A number of growing media are recognized internationally as high-risk pathways for the introduction and spread of quarantine pests. Soil as a growing medium is considered to be a high-risk pathway because it can harbour numerous pests of phytosanitary concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the <u>geographical</u> separation between the country of origin and the country of import.		English	Canada
70.	33	Substantive	A number of growing media are recognized internationally as high-risk pathways for the introduction and spread of quarantine pests. Soil as a growing medium is considered to be a	This sentence is not really needed here in the Background section. The important pest risk	English	EPPO, Norway,

		Comment type	Comment	Explanation	Language	Country
			high-risk pathway because it can harbour numerous pests of phytosanitary concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the separation between the country of origin and the country of import.	factors should be explained in Section 4.		Algeria
171.	33		number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors		English	Uruguay
172.	33	Substantive	number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors			COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
173.	33		number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors			Ecuador, Mexico, OIRSA, Belize, Costa Rica

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
174.			introduction and spread of quarantine pests. Soil as a growing medium is considered to be a high-risk pathway because it can harbour numerous pests of phytosanitary concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the separation between the country of origin and the country of import. Examples of growing media are provided in Annex 1A.		English	United States of America
175.	33				English	European Union
176.	33		A number of growing media are recognized internationally as high-risk pathways for the introduction and spread of quarantine pests. Soil as a growing medium is considered to be a high-risk pathway because it can harbour numerous <u>quarantine</u> pests of phytosanitary concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the separation between the country of origin and the country of import.	Pests of quarantine concern are quarantine pests, glossary term should be used in ISPM. "a number of" was deleted because is not necessary	English	Uruguay
177.	33	Technical	A number of growing media are recognized internationally as high-risk pathways for the introduction and spread of quarantine pests. Soil as a growing medium is considered to be a high-risk pathway because it can harbour numerous <u>quarantine</u> pests of phytosanitary concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the separation between the country of origin and the country of import.	Pests of quarantine concern are quarantine pests, glossary term should be used in ISPM. "a number of" was deleted because is not necessary	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
178.	33		A number of growing media are recognized internationally as high-risk pathways for the introduction and spread of quarantine pests. Soil as a growing medium is considered to be a high-risk pathway because it can harbour numerous <u>quarantine</u> pests of phytosanitary	Pests of quarantine concern are quarantine pests, glossary term should be used in ISPM. "a number of" was deleted because is not	English	Ecuador, Mexico, OIRSA,

		Comment type	Comment	Explanation	Language	Country
			concern to many countries. The pest risks of growing media accompanying plants for planting depend on a number of factors associated with both the production of the growing media and the production of the plants, as well as the interaction of the two. Important pest risk factors include the presence of or exposure to soil during propagation and production, the length of the plant's production cycle, and for growing media containing soil, the separation between the country of origin and the country of import.	necessary		Belize, Costa Rica
179.	34	Editorial	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a constituent of growing media. While some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media.	,it's very important to permit enter the soil this translate in our permenant law No.44 for year	English	Jordan
180.	34	Editorial	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or <u>when soil isÂ</u> soil as a constituent of <u>theÂ</u> growing <u>medium</u> media. While <u>it is possible to wash or shake off growing media from ï»</u> some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely toï» avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media. This standard provides guidance on ï» the probability of introduction or spread of pests with the movement of growing media accompanying plants for planting in international trade.	1. Better wording 2. More sensible wording in the context of an ISPM	English	EPPO, Algeria
181.	34	Editorial	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a constituent of growing media. While some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media. There is a need for internationally harmonized phytosanitary measures to minimize the probability of introduction or spread of pests with the movement of growing media accompanying plants for planting in international trade.	Text deleted is included in the mention to soil	English	Uruguay
182.	34	Editorial	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a constituent of growing media. While some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media. There is a need for internationally harmonized phytosanitary measures to minimize the probability of introduction or spread of pests with the movement of growing media	Text deleted is included in the mention to soil		COSAVE, Paraguay, Chile, Argentina, Peru, Brazil

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
			accompanying plants for planting in international trade.			
183.	34	Editorial	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a constituent of growing media. While some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media. There is a need for internationally harmonized phytosanitary measures to minimize the probability of introduction or spread of pests with the movement of growing media accompanying plants for planting in international trade.		English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
	34	Editorial	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or <u>when soil is soil as a</u> constituent of <u>the</u> growing <u>medium</u> <u>media</u> . While <u>it is possible to wash or shake off growing media from</u> some plants for planting <u>can have associated growing media washed off or</u> shaken off , it is often difficult to completely <u>to</u> avoid the movement of growing media. This standard provides guidance on There is a need for internationally harmonized phytosanitary measures to minimize the probability of introduction or spread of pests with the movement of growing media accompanying plants for planting in international trade.	the context of an ISPM.	English	European Union
185.	34	Substantive	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a constituent of growing media. While some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media. There is a need for internationally harmonized phytosanitary measures to minimize the probability of introduction or spread of pests with the movement of growing media accompanying plants for planting in international trade.	The new paragraph comes from para 12 and 13.	English	Thailand
			It is known that regulated pests associated with the movement of growing media accompanying plants for planting in international trade may have negative impacts on biodiversity. Implementation of this standard could significantly reduce the introduction and spread of pests associated with growing media and consequently reduce their negative impacts. In addition, the application of phytosanitary measures in accordance with this standard could also reduce the probability of introduction and spread of other organisms that may become invasive alien species in the country of import and thus affect biodiversity.			
			Certain pest risk management measures (e.g. some treatments with fumigants) may have a negative impact on the environment. Countries are encouraged to promote the use of phytosanitary measures that have a minimal negative impact on the environment			
186.	34	Substantive	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a	Global change. This sentence appears to be in contradiction with the scope, because it refers to	English	United

		Comment type	Comment	Explanation	Language	Country
10.		type				
			<u>component_constituent</u> of growing media. While some plants for planting can have associated growing media washed off or shaken off, it <u>is often_may be</u> difficult to completely avoid the movement of growing media with plants for planting, which may require additional phytosanitary measures. Some plants can survive transport only when moved in growing media. There is a need for internationally harmonized phytosanitary measures to minimize the <u>probability risk</u> of introduction or spread of pests with the movement of growing media accompanying plants for planting in international trade.			States of America
187.	34		Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a constituent of growing media. While some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media. There is a need for internationally harmonized phytosanitary measures to minimize the probability of introduction or spread of <u>guarantine</u> pests with the movement of growing media accompanying plants for planting in international trade.	associated with growing media	English	Uruguay
188.	34	Technical	Many countries therefore regulate the movement of growing media in association with plants for planting. Growing media are often prohibited, particularly soil or soil as a constituent of growing media. While some plants for planting can have associated growing media washed off or shaken off, it is often difficult to completely avoid the movement of growing media with plants for planting. Some plants can survive transport only when moved in growing media. There is a need for internationally harmonized phytosanitary measures to minimize the probability of introduction or spread of <u>quarantine</u> pests with the movement of growing media accompanying plants for planting in international trade.	Quarantine pests are the relevant pests associated with growing media	English	COSAVE, Paraguay, Chile, Argentina, Peru, Braz
189.	34		Many countries therefore regulate the movement of growing media in association with plants	Quarantine pests are the relevant pests associated with growing media	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
190.	35	Substantive	Requirements	The "Requirements" portion should only comprised of 2 points i.e. PRA & PRM Options instead of the 5 points now. Existing point 2 & 3 are sub-sets under point 4 which are on PRA.	English	Singapore
191.	37	Editorial	For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium	Better wording.	English	Uruguay

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
	Ì	1	accompanying a plant may be pests of other plants.			1
192.	37	Editorial	For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	Better wording.	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
193.	37	Editorial	For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:20 <u>1304</u> , including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	Better wording.	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
194.	37	Editorial	Pour l'évaluation des risques phytosanitaires associés aux milieux de culture accompagnant les végétaux destinés à la plantation, l'ONPV du pays importateur devrait procéder à une ARP conformément à la NIMP 2:2007 et à la NIMP 11:2004_2013, et prendre notamment en considération les facteurs de risque phytosanitaire des différents milieux de culture décrits dans la présente norme. Il convient de noter que les organismes nuisibles transportés avec les milieux de culture accompagnant des végétaux peuvent être nuisibles à d'autres végétaux.		Français	Mauritania
195.	37	Editorial	For the evaluation of pest risks of growing media accompanying associated with plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	Clearer	English	Malaysia
196.	37	Editorial	For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:20 <u>1304</u> , including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	See comment on 17	English	NEPPO
197.	37	Editorial	For the evaluation of pest risks of growing media <u>accompanyingassociated with</u> plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	consistency	English	Korea, Republic of
198.	37	Editorial	For the evaluation of pest risks of growing media accompanying associated with plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with	This is the regional comment made by the 14th APPPC Regional Workshop on Review of draft	English	Japan

		Comment type	Comment	Explanation	Language	Country
			the growing medium accompanying a plant may be pests of other plants.	ISPMs. The same reason as No. 1.		
199.	37	Editorial	For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:200413, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	Change the reference to the new title	-	Algeria, Morocco
200.	37		of Phytosanitary import requirements for pest risks of growing media accompanying plant fo	requirements should be technically justified on the basis of a PRA.	English	EPPO, Norway
201.	37		NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and	Both factors and their interaction should be considered when conducting PRA for plants for planting associated with growing media.	English	Uruguay
202.	37		For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and	Both factors and their interaction should be considered when conducting PRA for plants for planting associated with growing media.		COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
203.	37		For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPMÂ 2:2007 and ISPMÂ 11:2004, including the consideration of pest risk factors of various growing media described in this standard and factor related to the production of plants for planting (ISPM <u>36:2012</u>). It should be noted that <u>quarantine</u> pests carried with growing medium accompanying a plant may be pests of other plants.	planting associated with growing media.		Ecuador, OIRSA, Belize
204.	37	Substantive	For the evaluation of pest risks of growing media accompanying in association with plants for planting, the NPPO of the importing country should carry out PRA in accordance with	The phrase "growing media in association with plants for plantings" should be used throughout	English	Thailand

Comm. no.	1	Comment type	Comment	Explanation	Language	Country
			ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors that affect the pest risk of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	the standard. The exporting country which has to consider the mitigation pest risk should also be concerned in this paragraph.		1
			Meanwhile, the exporting country should develop the pest risk management such as applyin g the treatments recommened in section 5.1 to meet import requirements.			
205.	37	Substantive	For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA should carried out in accordance with ISPM 2:2007, and ISPMÃ, 11:2004 and ISPM 21: 2004, including the consideration of pest risk factors of various growing media described in this standard. Plants for planting and growing media are often assessed together. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	country. PRA could also be developed by the		United States of America
206.	37	Substantive	For the evaluation of Phytosanitary import requirements for pest risks of growing media accompanying plant for pl anting should be technically justified. This technical justification should be based on a pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	should be technically justified.	English	European Union
207.	37	Substantive	For the evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard and factors related to the production of plants for planting (ISPM 36: 2012). It should be noted that <u>quarantine</u> pests carried with growing medium accompanying a plant may be pests of other plants.	Both factors and their interaction should be considered when conducting PRA for plants for planting associated with growing media.	English	Costa Rica
208.	37	Technical	For the evaluation of pest risks of <u>a</u> growing media accompanying plants for planting, the NPPO of the importing country should carry out <u>a</u> PRA in accordance with ISPM 2:2007 and ISPM 11: <u>20042013</u> , including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.		English	EPPO
209.	37	Technical	For the <u>assessment</u> -evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	It is assessment of pest risks and not evaluation.		Suriname, Jamaica, Trinidad and Tobago,

	1	Comment type	Comment	Explanation	Language	Country
						Dominica
210.	37	Technical	For the <u>assessment</u> evaluation of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	This term is more consistent with ISPM 5.	English	Saint Kitts And Nevis
211.	37	Technical	For the <u>assessment</u> -evaluation of pest risks of growing media accompanying plants for	It is assessment of pest risks and not evaluation and is in keeping with the definintion of PRA.	English	Barbados
212.	37	Technical	For the <u>assessment evaluation</u> of pest risks of growing media accompanying plants for planting, the NPPO of the importing country should carry out PRA in accordance with ISPM 2:2007 and ISPM 11:2004, including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.	Consistency in keeping with ISPM 5	English	Guyana
213.	37	Technical	For the evaluation of pest risks of <u>a</u> growing media accompanying plants for planting, the NPPO of the importing country should carry out <u>a</u> PRA in accordance with ISPM 2:2007 and ISPM 11: 20042013 , including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.		English	European Union
214.	37	Technical	For the evaluation of pest risks of <u>a</u> growing media accompanying plants for planting, the NPPO of the importing country should carry out <u>a</u> PRA in accordance with ISPM 2:2007 and ISPM 11: <u>20042013</u> , including the consideration of pest risk factors of various growing media described in this standard. It should be noted that pests carried with growing medium accompanying a plant may be pests of other plants.		English	Norway, Algeria
215.	38	Editorial	2. <u>1.1</u> Constituents of Growing Media and their Associated Pest Risk	This section should be a sub section under Pest Risk Analysis	English	Thailand, Malaysia
216.	38	Editorial	2. <u>1.1</u> Constituents of Growing Media and their Associated Pest Risk	This section should be a sub section under Pest Risk Analysis	English	Korea, Republic of
217.	38	Editorial	2. Constituents of Growing Media and their Associated Pest Risk	This section should be a sub-section under pest risk analysis.	English	Nepal

		Comment type	Comment	Explanation	Language	Country
110.	10.	rype				
218.	38	Editorial	2.1.1. Constituents of Growing Media and their Associated Pest Risk	This section should be a sub section under Pest Risk Analysis	English	Viet Nam
219.	38	Substantive	2. Constituents Components of Growing Media and their Associated Pest Risk	Clearer. Suggest a global change.	English	United States of America, Mexico
220.	39	Editorial	The origin and the production methods of constituents (used alone or in combination) of growing media affect the pest risks that are associated with the growing media <u>associated with</u> accompanying plants for planting. Annex 1a lists constituents of growing media and indicates their pest risk under the assumption that they were not previously used as growing media or packing material and that they have been handled and stored in a way that minimizes contamination. Annex 1b provides specific guidance on growing media associated with plants for planting that may generally be considered of low or negligible risk.			EPPO, Algeria
221.	39	Editorial	The origin and the production methods of constituents (used alone or in combination) of growing media affect the pest risks that are associated with the growing media associated with accompanying plants for planting. Annex 1a lists constituents of growing media and indicates their pest risk under the assumption that they were not previously used as growing media or packing material and that they have been handled and stored in a way that minimizes contamination. Annex 1b provides specific guidance on growing media associated with plants for planting that may generally be considered of low or negligible risk.		English	European Union
222.	39	Substantive	The origin and the production methods of <u>constituents_components</u> (used alone or in combination) of growing media affect the pest risks that are associated with the growing media accompanying plants for planting. Annex 1a lists <u>components_constituents</u> of growing media and indicates their <u>pestrelative phytosanitary</u> risk, under the assumption that they were not previously used as growing media <u>for planting and were or packing material and have been</u> handled and stored in a way that <u>preventsminimizes</u> contamination. Annex 1b provides <u>informationspecific guidance</u> on growing media associated with plants for planting that may generally be considered of low or negligible risk.	74. To match the footnote in Annex 1a. See US	English	United States of America

		Comment type	Comment	Explanation	Language	Country
				removing Phytophthora ramorum from recirculated irrigation water. This means the Phytophthora spores stayed in the sand.		
223.	39		The origin and the production methods of constituents (used alone or in combination) of growing media affect the pest risks that are associated with the growing media accompanying plants for planting. Annex 1a lists constituents of growing media and indicates their pest risk under the assumption that they were not previously used as growing media or packing material and have been handled and stored in a way that minimizes contamination. Annex 1b provides specific guidance on growing media associated with plants for planting that may generally be considered of low or negligible risk.	Delete the last sentence of the paragraph as it should not refer to Annex 1b which has been deleted. Please see comment under Para. 77	English	Canada
24.	39		The origin and the production methods of constituents (<u>whether considered</u> used alone or in combination) of growing media affect the pest risks that are associated with the growing media accompanying plants for planting. Annex 1a lists constituents of growing media and indicates their pest risk under the assumption that they were not previously used as growing media or packing material and have been handled and stored in a way that minimizes contamination. Annex 1b provides specific guidance on growing media associated with plants for planting that may generally be considered of low or negligible risk.	refer to comments on para 28	English	Australia
25.	40		Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. The PRA should focus on the growing media constituent(s) posing the highest pest risk. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests.	It's more clearly.	English	China
26.	40	Editorial	The PRA should focus on the growing media constituent(s) posing the highest pest risk. Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms that could be not yet deemed to be pests. The PRA should focus on the growing media constituent(s) posing the highest pest risk.	Unclear as to what 'not yet' meant to mean so amend	English	Australia
27.	40	Substantive	Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk , even after heat or chemical treatment, t han mineral or	1. If a treatment is effective, then growing medium consisting of plant debris does not pose a higher risk than mineral or synthetic medium.	English	EPPO, Norway

Comm no.	. Para. no.	Comment type	Comment	Explanation	Language	Country
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus on the growing media constituent(s) posing the highest pest risk.	2. This is wrong - it predicts the result of the PRA before it is carried out, and overlooks the potential risks of other constituents.		
228.	40	Substantive	Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus-consider on the risk posed by growing media constituent(s) posing the highest pest risk.	What is relevant are pests, it is not clear what are organisms not yet deemed to be pests. The PRA should consider all constituents and not focused to those of highest pest risks.	English	Uruguay
229.	40	Substantive	Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus consider on the risk posed by growing media constituent(s) posing the highest pest risk.	What is relevant are pests, it is not clear what are organisms not yet deemed to be pests. The PRA should consider all constituents and not focused to those of highest pest risks.		COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
230.	40	Substantive	Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus consider on the risk posed by growing media constituent(s) posing the highest pest risk.	What is relevant are pests, it is not clear what are organisms not yet deemed to be pests. The PRA should consider all constituents and not focused to those of highest pest risks.		Ecuador, OIRSA, Belize, Costa Rica
231.	40	Substantive	Growing media containing organic <u>components</u> <u>constituents</u> may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium, or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus on the growing media constituent(s) posing the highest pest risk.	Global change. 2nd deletion, soil as a contaminant is not included in the scope of this standard. PRA considers all pest risks. The NPPO shouldn't focus on only the highest pest risk, but should also consider the pest risks of all the components. The blanket statement "Growing media containing organic constituents may be more likely to harbor pests than purely mineral" (or synthetic growing media) is disputable. It is true that synthetic media have	English	United States of America

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
				few pests prior to plant production, but during the growing process, organic matter greatly influences microbial population dynamics, and can be useful in pathogen control (Hoitink and Boehm, 1999). For example, Nesbit et al. (1979) found organic matter reduced the survival of Phytophthora cinnamomi in soil. They suggested the abortion of spores was caused by the increased nutrient capacity fostering beneficial microbial populations antagonistic to the pathogen.		
232.	40	Substantive	Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk , even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus on the growing media constituent(s) posing the highest pest risk.			European Union
233.	40	Technical	Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus on the growing media constituent(s) posing the highest pest risk.	"All of the organisms that are potentially pests" is too large to be all taken in.	English	EPPO, Norway, Algeria
234.	40	Technical	Growing media containing organic constituents may be more likely to harbour pests than purely mineral or synthetic growing media. Growing media consisting of plant debris generally pose a greater pest risk, even after heat or chemical treatment, than mineral or synthetic growing media. If soil is part of the growing medium or the probability that the medium will be contaminated with soil is considered high, the pest risk may be particularly difficult to fully assess due to the likely presence of many different pests and other organisms not yet deemed to be pests. The PRA should focus on the growing media constituent(s) posing the highest pest risk.	"All of the organisms that are potentially pests" is too large to be all taken in.	English	European Union
235.	41	Editorial	3. Production of Growing Media and Treatment Before Use	restructuring	English	Thailand, Malaysia

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
236.	41	Editorial	3. Production of Growing Media and Treatment Before Use	delete	English	Korea, Republic of
237.	41	Editorial	3. Production of Growing Media and Treatment Before Use	Restructuring	English	Viet Nam
238.	41	Substantive	3. Production of Growing Media and Treatment Before Use	Suggest moving to become a new Section under paragraph 53 because the information it includes is more appropriate as a pest risk management option and includes information on treatments.		United States of America
239.	42	Editorial	The pest risks posed by growing media depend largely on the media's production methods and the degree of processing.	restructuring	English	Thailand, Malaysia
240.	42	Editorial	The pest risks posed by growing media depend largely on the media's production methods and the degree of processing.	Move under new 1.2	English	Korea, Republic of
241.	42	Editorial	The pest risks posed by growing media depend largely on the media's production methods and the degree of processing.	Move under new 1.2	English	Viet Nam
242.	42	Substantive	The pest risks posed by growing media depend largely on the mediaÃ <i>f</i> ¢â'¬â"¢s production methods and the degree of processing.	Suggest moving to under paragraph 53. See US comment on paragraph 41.	English	United States of America
243.	42	Substantive	The pest risks posed by growing media depend largely on the media's production methods , treatment and the degree of processing.	We believe that treatment ishould be considered important when assessing the risk ,	English	Dominica
244.	43	Editorial	Growing media should be produced under a management system that allows appropriate traceability (back and forward). Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization For claritybefore use.	For clarity	English	Ghana
245.	43		Growing media should be produced under a management system that allows appropriate traceability (back and forward). Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization.	See US comment on paragraph 41.	English	United States of America

Comm. no.		Comment type	Comment	Explanation	Language	Country
246.	43	Technical	Growing media should be produced under a management system that allows appropriate traceability (back and forward) <u>of both it and its constituents where appropriate</u> . Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization.	forward. 2) Reference to PRA here is strange. PRA is conducted to justify import requirements, not to assess pest risks in cases of (incidental?) contamination of growing media with soil 3)	English	EPPO, Norway
247.	43	Technical	Growing media should be produced under a management system that allows appropriate traceability (back and forward). Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method-treatment before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization.	Heat treatment can also lead to sterilization. Besides, fumigation is a type of chemical treatment. Sterilization can be achieved using different procedures	English	Uruguay
248.	43	Technical	Growing media should be produced under a management system that allows appropriate traceability (back and forward). Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method-treatment before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization.	Heat treatment can also lead to sterilization. Besides, fumigation is a type of chemical treatment. Sterilization can be achieved using different procedures	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
249.	43	Technical	Growing media should be produced under a management system that allows appropriate traceability (back and forward). Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method-treatment before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization.	Heat treatment can also lead to sterilization. Besides, fumigation is a type of chemical treatment. Sterilization can be achieved using different procedures	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
250.	43	Technical	Growing media should be produced under a management system that allows appropriate traceability (back and forward) <u>of both it and its constituents where appropriate</u> . Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization.	1) To clarify what should be traced back and forward. 2) Reference to PRA here is strange. PRA is conducted to justify import requirements, not to assess pest risks in cases of (incidental?) contamination of growing media with soil 3) fumigation is generally considered as a chemical	English	European Union

Comm. no.		Comment type	Comment	Explanation	Language	Country
				treatment.		
251.	44	Editorial	4. Factors that Affect the Pest Risks of Growing Media <u>associated with</u> Used for Plants for Planting	for clarity	English	EPPO
252.	44	Editorial	4. Factors that Affect the Pest Risks of Growing Media Used for <u>associated with</u> Plants for Planting	For consistency throughout the text	English	Uruguay
253.	44	Editorial	4. Factors that Affect the Pest Risks of Growing Media Used for <u>associated with</u> Plants for Planting	For consistency throughout the text	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
254.	44	Editorial	4. Factors that Affect the Pest Risks of Growing Media Used for <u>associated with</u> Plants for Planting	For consistency throughout the text	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
255.	44	Editorial	 4. <u>1.2</u> Factors that Affect the Pest Risks of Growing Media Used for Plants for Planting The pest risks posed by growing media depend largely on the media's production methods and the degree of processing. Growing media should be produced under a management system that allows appropriate traceability (back and forward). Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method before use, such as steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization. 	This section should be a sub section under Pest Risk Analysis	English	Thailand, Malaysia

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
256.	44	Editorial	4. <u>1.2</u> Factors that Affect the Pest Risks of Growing Media Used for Plants for Planting	This section should be a sub section under Pest Risk Analysis	English	Korea, Republic of
			The pest risks posed by growing media depend largely on the media's production methods and the degree of processing. Growing media should be produced under a management system that allows appropriate traceability (back and forward). Growing media should be produced, stored and maintained under conditions that prevent their contamination. The media should not be exposed to any plants or soil (in the case of soil-free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method before use, such as steam pasteurization, heat			
257.	44	Editorial	<u>treatment, chemical treatment, fumigation or sterilization.</u> 4. Factors that Affect the Pest Risks of Growing Media <u>associated with</u> Used for Plants for Planting	For clarity.	English	European Union
258.	44	Editorial	4. Factors that Affect the Pest Risks of Growing Media Used for Plants for Planting	This section should be a sub-section under pest risk analysis.	English	Nepal
259.	44	Editorial	4. <u>1.2.</u> Factors that Affect the Pest Risks of Growing Media Used for Plants for Planting	This section should be a sub section under Pest Risk Analysis	English	Viet Nam
			The pest risk posed by growing media depend largely on the media's production methods a nd the degree of processing. Growing media should be produced under a management syst em that allows appropriate traceability (back and forward). Growing media should be produc ed, stored and maintained under conditions that prevent their contamination. The medias sh ould not be exposed to any plant or soil (in the case of soil- free growing media). If this has not been achieved, depending on the result of the PRA, the growing media may need to be treated by an appropriate method before use, such as steam pasteurization, heat treatment, chemical treatment (fumigation or sterilization).			
260.	44	Substantive	34. Factors that Affect the Pest Risks of Growing Media Used for Plants for Planting	See US comment in paragraph 41	English	United States of America
261.	45	Substantive	The production methods of plants for planting may affect the pest risks of the growing media used. While some growing media may pose a low pest risk by nature of their production, they may become contaminated during the production process of plants for planting. Requirements contained in ISPMÂ 36:2012 on integrated measures for plants for planting should be considered to prevent contamination of the growing media. Production should be initiated from growing media, plants for planting and water that are all pest free. Additional phytosanitary measures may be used, either alone or in combination, to ensure the pest	Suggest moving to chapeau of Risk Management Options section	English	United States of America

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
			risks are managed.			
262.	45	Technical	The production methods of plants for planting may affect the pest risks of the growing media used. While some growing media may pose a low pest risk by nature of their production, they may become contaminated during the production process of plants for planting. Requirements contained in ISPM 36:2012 on integrated measures for plants for planting should be considered to prevent contamination of the growing media. Production should be initiated from growing media, plants for planting and water that are all pest free of pests regulated by the importing country. Additional phytosanitary measures may be used, either alone or in combination, to ensure the pest risks are managed.	What is required is pest freedom from pests regulated in the importing country	English	Uruguay
263.	45	Technical	The production methods of plants for planting may affect the pest risks of the growing media used. While some growing media may pose a low pest risk by nature of their production, they may become contaminated during the production process of plants for planting. Requirements contained in ISPM 36:2012 on integrated measures for plants for planting should be considered to prevent contamination of the growing media. Production should be initiated from growing media, plants for planting and water that are all pest free of pests regulated by the importing country. Additional phytosanitary measures may be used, either alone or in combination, to ensure the pest risks are managed.	What is required is pest freedom from pests regulated in the importing country	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
264.	45	Technical	The production methods of plants for planting may affect the pest risks of the growing media used. While some growing media may pose a low pest risk by nature of their production, they may become contaminated during the production process of plants for planting. Requirements contained in ISPM 36:2012 on integrated measures for plants for planting should be considered to prevent contamination of the growing media. Production should be initiated from growing media, plants for planting and water that are all pest free of pests regulated by the importing country. Additional phytosanitary measures may be used, either alone or in combination, to ensure the pest risks are managed.	What is required is pest freedom from pests regulated in the importing country	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
265.	45	Technical	Requirements contained in ISPM 36:2012 on integrated measures for plants for planting	It is very onerous to specify that all input materials SHOULD be pest free. The only practical approach is to know the status of the materials and apply appropriate measures as and when required.	English	Australia
266.	46	Substantive	The NPPO of the importing country may take into consideration the pest risks (as outlined in Annex 1a and 1b and Appendix 1) of constituents of growing media in association with plants for planting when conducting a PRA to identify appropriate phytosanitary measures. Furthermore In general, PRA should consider the status of regulated pests in the importing and exporting countries, and the degree of similarity between those countries (see ISPM 2:2007 and ISPM 11:2004). Peest risks may also depend on:	For clarity, much of the text is redundant.	English	United States of America

Comm.	1	Comment	Comment	Explanation	Language	Country
no.	no.	type				
267.	47	Substantive	 degree of geographical similarity of, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	Redundant, incorporated into paragraph 46.	English	United States of America
268.	47	Technical	 for soil and growing media containing soil the degree of geographical similarity of or distance between country of origin and country of import, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	The meaning of 'geographical' similarity seems unclear, and keeping the wording very simple might actually provide more clarity here.	English	EPPO
269.	47	Technical	 degree of geographical similarity of, or distance between, country of origin and country of import (e.g. post risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	Not clear wording, it could be taken into account but it is not relevant, it mixes distance between countries and geographic similarity between countries. The factor that should be taken into account is the pest status in the country of origin and destination, distance has nothing to do.	English	Uruguay
270.	47	Technical	 degree of geographical similarity of, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	Not clear wording, it could be taken into account but it is not relevant, it mixes distance between countries and geographic similarity between countries. The factor that should be taken into account is the pest status in the country of origin and destination, distance has nothing to do.	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
271.	47	Technical	 degree of geographical similarity of, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	Not clear wording, it could be taken into account but it is not relevant, it mixes distance between countries and geographic similarity between countries. The factor that should be taken into account is the pest status in the country of origin and destination, distance has nothing to do.	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
272.	47	Technical	 degree of geographical similarity of, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	Soil is an interacting system. It is rich on diversified microorganisms which in some cases can have antagonist effect on pests. The interacting system can vary from on part to another depending upon a soil structure, chemical compounds and exchanges between roots and microorganisms of soils. The climate and crops can also impact the biological component of the soil. So, it is difficult on this	English	NEPPO

Comm	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
				basis to take into consideration this similarity.		1
273.	47	Technical	• <u>for soil and growing media containing soil the</u> degree of geographicalÃ,Â -similarity of, or distance between, country of origin and country of import, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region)	The meaning of 'geographical' similarity seems unclear, and keeping the wording very simple might actually provide more clarity here.	English	European Union
274.	47	Technical	 <u>for soil and growing media containing soil, the</u> degree of <u>geographicalÃ,Â</u> similarity of, <u>or distance between</u>, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	The meaning of 'geographical' similarity seems unclear, and keeping the wording very simple might actually provide more clarity here.	English	Norway
275.	47	Technical	 degree of geographical similarity (i.e. countries with high degree of geographical similarity shall influence the establish of the pest), of, or distance between, country of origin and country of import (e.g. pest risk related to soil originating in different continents versus adjacent countries within one ecoclimatic region) 	More clarification	English	Algeria, Morocco
276.	48	Editorial	 <u>pest</u> status of relevant pests in the exporting or importing country (e.g. pest free area, area of low pest prevalence) 	Glossary term	English	Uruguay
277.	48	Editorial	 <u>pest</u> status of relevant pests in the exporting or importing country (e.g. pest free area, area of low pest prevalence) 	Glossary term	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazi
278.	48	Editorial	 <u>pest</u> status of relevant posts in the exporting or importing country (e.g. pest free area, area of low pest prevalence) 	Glossary term	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
279.	48	Substantive	 status of relevant pests in the exporting or importing country (e.g. pest free area, area of low pest prevalence) 	Redundant	English	United States of America

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
280.	48	Technical	 status of relevant pests in the exporting or importing country (e.g. presence, absence or transience pest free area, area of low pest prevalence) 	Descriptions of pest status, not measures	English	EPPO
281.	48	Technical	 status of relevant pests in the exporting or importing country (e.g. pest free area, area of low pest prevalence) 	These are not examples of pest status according to ISPM 8	English	Uruguay
282.	48	Technical	 status of relevant pests in the exporting or importing country (e.g. pest free area, area of low pest prevalence) 	These are not examples of pest status according to ISPM 8	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
283.	48	Technical	 status of relevant pests in the exporting or importing country (e.g. pest free area, area of low pest prevalence) 	These are not examples of pest status according to ISPM 8	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
284.	48	Technical	 status of relevant pests in the exporting or importing country (e.g. presence, absence or transience pest free area, area of low pest prevalence) 	Descriptions of pest status, not measures	English	European Union
285.	48	Technical	 status of relevant pests in the exporting or importing country (e.gpest free area, area of low pest prevalence) 	The examples were of measures not pest status	English	Norway
286.	48	Technical	status of relevant pests in the exporting or importing country (e.g. <u>presence, absence or transience pest free area, area of low pest prevalence</u>)	Descriptions of pest status, not measures	English	Algeria
287.	49	Substantive	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage production system for the plants (e.g. the presence of or exposure to soil) length of the plant's production cycle 	Moved part of text from Background. Clarify that first bullet is about production of growing media (up til it is used for planting) and next bullet point is about what happens after planting, other two bullets are additional conditions that seem	English	EPPO, Norway

Comm. no.		Comment type	Comment	Explanation	Language	Country
			Presence of, or exposure to, soil during plant propagation and production,	relevant.		
288.	49	Substantive	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage Measures to prevent contamination of growing media during transportation. 	To include the inserted bullet as a new bullet no 50 to highlight the dependency of measures during transportation under pest risk.	English	Singapore
289.	49	Substantive	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage Measures to prevent contamination of growing media during transportation 	adding new bullet. It should be considered a pest risk during transportation.	English	Thailand
290.	49	Substantive	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage <u>New para [50]</u> <u>Measures to prevent contamination of growing media during transportation</u> 	Thailand proposed to add a new point	English	Malaysia
291.	49	Substantive	 <u>components of growing media</u> production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage 	Delete 2nd part of bullet because traceability is not a factor affecting pest risk, and is addressed as a risk management option in paragraph 43.	English	United States of America
292.	49	Substantive	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage production system for the plants (e.g. the presence of or exposure to soil) length of the plant's production cycle presence of, or exposure to, soil during plant propagation and production, 	Moved part of text from Background. Clarify that first bullet is about production of growing media (up til it is used for planting) and next bullet point is about what happens after planting, other two bullets are additional conditions that seem relevant. See our comment No.10.		European Union
293.	49	Substantive	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage 	Clearly for a system	English	Viet Nam

Comm. no.		Comment type	Comment	Explanation	Language	Country
			 <u>New paragraph [50]</u> <u>Measures to prevent contamination of growing media during transportation</u> 			
294.	49	Technical	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage 	It is too difficult to trace back the growing media during production or storage for growing media associated with plants for planting. This seems to be more appropriate for bulk growing media as a commodity. What is relevant is that the growing media could be certified by the NPPO of the exporting country and complies with phytosanitary import requirements of the NPPO of the importing country	English	Uruguay
295.	49	Technical	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage 	It is too difficult to trace back the growing media during production or storage for growing media associated with plants for planting. This seems to be more appropriate for bulk growing media as a commodity. What is relevant is that the growing media could be certified by the NPPO of the exporting country and complies with phytosanitary import requirements of the NPPO of the importing country	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
296.	49	Technical	 production systems in place to prevent contamination of growing media, and traceability of the growing media during production and storage 			Ecuador, Mexico, OIRSA, Belize, Costa Rica
297.	50	Substantive	 intended location and use of the plants for planting associated with the growing media 		English	Uruguay
298.	50	Substantive	 intended location and use of the plants for planting associated with the growing media 	Intended use of plants for planting is "planting"		COSAVE, Paraguay, Chile,

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
						Argentina, Peru, Brazil
299.	50	Substantive	 intended location and use of the plants for planting associated with the growing media 	Intended use of plants for planting is "planting"	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
300.	50	Substantive	 intended location and use (<u>e.g. commercial vs. residential</u>) of the plants for planting associated with the growing media <u>new or re-used growing media</u> 	Plants for planting is an intended use. Need to clarify the meaning of "intended use" in this indent. Suggest providing examples. New bullet: Once growing media is used, the risk level is affected.	English	United States of America
301.	50	Technical	 intended location and use of the plants for planting associated with the growing media 	"intended location" should be detailed if it is to be kept, as it makes no sense here.	English	EPPO
302.	50	Technical	 intended location and use of the plants for planting associated with the growing media 	"intended location" should be detailed if it is to be kept, as it makes no sense here.	English	European Union
303.	50	Technical	 intended location and use of the plants for planting associated with the growing media 	"intended location" should be detailed if it is to be kept, as it makes no sense here.	English	Norway
304.	51	Substantive	 history of trade, if it exists (e.g. new trade versus long trade history of plants with soil) 	Is the intention to suggest that if you have been importing plants with soil for many years then the pest risk of more soil should be lower. This may be correct in some cases but is really a sweeping generalisation that would be highly dependent on the specific circumstances.		Australia
305.	51	Substantive	 history of trade, if it exists (e.g. new trade versus long trade history of plants with soil) 	This example expresses confidence in the system and is not an inherent property of growing media.	English	United States of America

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
306.	51	Technical	 <u>historical or existing import of soil or growing media history of trade, if it exists (e.g.</u> new trade versus long trade history of plants with soil) 	clearer wording for better link to the impact on pest risk	English	EPPO, Algeria
307.	51	Technical	 history of trade, if it exists (e.g. new trade versus long trade history of plants with soil) 	Pest risks do not depend on history of trade. Besides if it is necessary to carry out a PRA there is no history of trade	English	Uruguay
308.	51	Technical	 history of trade, if it exists (e.g. new trade versus long trade history of plants with soil) 	Pest risks do not depend on history of trade. Besides if it is necessary to carry out a PRA there is no history of trade	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
309.	51	Technical	 history of trade, if it exists (e.g. new trade versus long trade history of plants with soil) 	Pest risks do not depend on history of trade. Besides if it is necessary to carry out a PRA there is no history of trade	English	Ecuador, OIRSA, Belize, Costa Rica
310.	51	Technical	 In the assessment of risk, the following points may be relevant: history of trade, if it exists (e.g. new trade versus long trade history of plants with soil) 	Para 46 and the dot points are a mixture of factors influencing pest risk and factors that could be considered in assessing the risk. Dot points at 51 and 52 relate to the assessment of risk. They do not directly affect the risk.	English	Australia
311.	51	Technical	 <u>historical or existing import of soil or growing media history of trade, if it exists (e.g.</u> new trade versus long trade history of plants with soil) 	Clearer wording for better link to the impact on pest risk.	English	European Union
312.	51	Technical	 <u>historical or existing import of plants with soil or growing media history of trade, if it exists (e.g. new trade versus long trade history of plants with soil)</u> 	clearer wording for better link to the impact on pest risk	English	Norway
313.	52	Substantive	notifications of non-compliance of imported consignments, if they exist.	Deleted bullet expresses confidence in the system, and is not an inherent property of growing media. Added bullet, this point should be	English	United States of

Comm. no.	1	Comment type	Comment	Explanation	Language	Country
			Degree to which plant parts (especially roots) are obscured for pests of concern	included.		America
314.	52	Technical	notifications of non-compliance of imported consignments, if they exist.	Merged into new un-bulleted para 51.	English	EPPO, Norway, Algeria
315.	52	Technical	notifications of non-compliance of imported consignments, if they exist.	It is not clear if this item refers to notifications received by the importing country or notifications in general. If it refers to the first case, there is no history of trade and a PRA is being conducted to assess pest risk. If it refers to the second case, notification of non compliance is a bilateral process and not always available for third countries.	English	Uruguay
316.	52	Technical	 notifications of non-compliance of imported consignments, if they exist. 	It is not clear if this item refers to notifications received by the importing country or notifications in general. If it refers to the first case, there is no history of trade and a PRA is being conducted to assess pest risk. If it refers to the second case, notification of non compliance is a bilateral process and not always available for third countries.	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazi
317.	52	Technical	notifications of non-compliance of imported consignments, if they exist.	It is not clear if this item refers to notifications received by the importing country or notifications in general. If it refers to the first case, there is no history of trade and a PRA is being conducted to assess pest risk. If it refers to the second case, notification of non compliance is a bilateral process and not always available for third countries.	English	Ecuador, OIRSA, Belize, Costa Rica
318.	52	Technical	 notifications of non-compliance of imported consignments, if they exist. 	Merged into new un-bulleted para 51.	English	European Union
319.	53	Editorial	5 <u>2</u> . Pest Risk Management Options	Rearrangement of numbering as a result of comment for paragraph 38.	English	Singapore
320.	53	Editorial	5. <u>2</u> Pest Risk Management Options	Restructuring	English	Thailand

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
321.	53	Editorial	5. <u>2</u> Pest Risk Management Options	Numbering rearranged	English	Malaysia
322.	53	Editorial	5. 2.Pest Risk Management Options	Numbering rearranged	English	Korea, Republic of
323.	53	Editorial	52. Pest Risk Management Options	Numbering rearranged	English	Viet Nam
324.	53	Substantive	 54. Pest Risk Management Options ÂfÆ'Ăţ'Ăţâ€ Ă¢â, ¬â,¢ĂţÆ'Ă,¢Ăţ¢ÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţÂţ	See US comment in paragraph 41. New chapeau moved from paragraph 45. Modification to original paragraph 42. Origin is an important factor (e.g. the depth/layer of the earth where the growing media is removed, natural vs. agricultural land). The pest risk posed may depend on the origin and components of the growing media, which may be mitigated by production methods, based on PRA. See US comments on paragraph 40. Modification to original paragraph 43, last sentence. The examples of treatment types are already indicated elsewhere in the standard.		United States of America
325.	53	Substantive	5. Pest Risk Management Options Integrated measures may be developed and implemented by the NPPO of the exporting country to manage the risk associated with pests, including those that may be associated	Systems approaches are a crucial phytosanitary measure for growing media and should be addressed in this draft standard.	English	Canada

	1	Comment type	Comment	Explanation	Language	Country
			with growing media. The following measures can be used singly or in combination as part of a systems approach (cf. ISPM 14:2002).			
326.	54	Editorial	52.1 Treatments to prevent or limit the movement of pests with growing media	Rearrangement of numbering of this sub-section due to comment in paragraph 38.	English	Singapore
327.	54	Editorial	5.1 <u>2.1</u> Treatments to prevent or limit the movement of pests with growing media	This section should be a sub section under Pest Risk Management Option	English	Thailand, Malaysia
328.	54	Editorial	5.1 2.1 Treatments to prevent or limit the movement of pests with growing media	This section should be a sub section under Pest Risk Management Option	English	Korea, Republic of
329.	54	Editorial	5.42 Treatments to prevent or limit the movement of pests with growing media	New sub-section 5.2 - Re-number to accommodate new sub-section 5.1.	English	Canada
330.	54	Editorial	52.1 Treatments to prevent or limit the movement of pests with growing media	This section should be a sub section under Pest Risk Management Option	English	Viet Nam
331.	54	Substantive	4.25.1 Treatments to prevent or limit the movement of pests with growing media	See US comment from paragraph 41.	English	United States of America
332.	54	Substantive	5.1 Treatments to prevent or limit the movement of pests with growing media 5.1 Prevention of colonization by the relevant pest	New sub-section 5.1 to incorporate information deleted from Annex 1b, table 2 as these measures are important to consider and better placed in the core text of the standard.	English	Canada
			The following measures may be used to prevent colonization by the relevant pest:			
			• pest free area			
			pest free place of production			
			• protected conditions			
			• prevention of transmission by wind			
			 growth on benches separated from contact with soil 			

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
333.	54	Technical	5.1 Treatments to prevent or limit the movement of pests with growing media	Treatment is defined in the ISPM 5 and to explain the aim of its application is redundant	English	Uruguay
334.	54	Technical	5.1 Treatments to prevent or limit the movement of pests with growing media	Treatment is defined in the ISPM 5 and to explain the aim of its application is redundant	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
335.	54	Technical	5.1 Treatments to prevent or limit the movement of pests with growing media	Treatment is defined in the ISPM 5 and to explain the aim of its application is redundant	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
336.	54		5.1 Treatments to <u>manage or reduce the pest risks of prevent or limit the movement</u> of pests with growing media	None of these treatments directly influence movement. They all manage the pest risks.	English	Australia
337.	55	Editorial	Treatments <u>may</u> can be applied at various <u>stagespoints</u> in the production cycle of plants for planting to mitigate the risks associated with pests in the growing media. These treatments <u>may can</u> be applied alone or in combination:	Usual use of verb	English	EPPO, Algeria, Morocco
338.	55	Editorial	Treatments can be applied at various points in the production cycle of plants for planting to mitigate the risks associated with pests in the growing media. These treatments <u>mayean</u> be applied alone or in combination. For example:	For clarification	English	United States of America
339.	55	Editorial	Treatments <u>maycan</u> be applied at various <u>stagespoints</u> in the production cycle of plants for planting to mitigate the risks associated with pests in the growing media. These treatments <u>may can</u> be applied alone or in combination:	Usual use of verb	English	European Union
			Treatments can be applied at various points in the production cycle of plants for planting to mitigate the risks associated with pests in the growing media. These treatments can be applied alone or in combination: in a system approach	to be consistent with already define terms in ISPM 5 and already approved standards	English	Dominica
341.	55	Technical	Treatments can be applied at various points in the production cycle of plants for planting to mitigate the risks associated with <u>quarantine</u> pests in the growing media. These treatments can be applied alone or in combination:	Quarantine pests are the relevant pest associated with growing media	English	Uruguay

	1	Comment type	Comment	Explanation	Language	Country
342.	55	Technical		Quarantine pests are the relevant pest associated with growing media	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
343.	55	Technical		Quarantine pests are the relevant pest associated with growing media	English	Ecuador, OIRSA, Belize, Costa Rica
344.	56	Editorial	 treatment of growing media before planting (see section 3) (steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization) 	detail description moved from para 43.	English	Thailand
345.	56	Editorial	 treatment of growing media before planting (see section 3) (steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization) 	detail description	English	Malaysia
346.	56	Editorial	 treatment of growing media before planting (see section 3) (steam pasteurization, heat treatment, chemical treatment, fumigation or sterilization) 	clarify	English	Korea, Republic of
347.	56	Substantive	 treatment of growing media before planting (see section 3) , such as steam pasteurization, heat treatment, chemical treatment, fumigation or s terilization 	Copied from Paragraph 43	English	United States of America
348.	56	Substantive	 treatment of growing media before planting (see section 3) treatment (e.g. filtration, sterilization) of water or water-based nutrient solution used for irrigation or as growing medium. 	Add a new bullet to capture information about treatment of water from deleted Annex 1b, Table 1 as this treatment would be important to consider and better placed in the core text of the standard.	English	Canada

		Comment type	Comment	Explanation	Language	Country
349.	56	Substantive	 treatment of growing media before planting (see section 3steam pasteurization, heat treatment, chemicaltreatment) 	Detail description	English	Viet Nam
350.	56	Technical	 treatment of growing media before planting (see section 3) treatment of fields or planting beds intended for the production of plants for planting 	see [58]	English	EPPO, Norway, Algeria
351.	56	Technical	 treatment of growing media before planting (see section 3) treatment of fields or planting beds intended for the production of plants for planting 	See [58].	English	European Union
352.	58	Substantive	 treatment related toof growing conditions (annex I of ISPM 36) fields or planting beds intended for the production of plants for planting 	It should referred to growing condition in annex 1 of ISPM 36 (1) growth chamber (2) greenhouse (3) screen house (4) field grown in containers (pots, tubs etc.) (5) field grown	English	Thailand
353.	58	Technical		Would be better located after paragraph [56] because in both cases plants are not treated.	English	EPPO, Norway, Algeria
354.	58	Technical		Would be better located after paragraph [56] because in both cases plants are not treated.	English	European Union
355.	60	Technical	 élimination du milieu de culture en lavant les racines ou en secouant la plante. 	Attention, le fait de secouer les plants ou de laver les racines ne veut pas dire que le milieu de culture est éliminé car il peut tomber ailleurs et contaminer !	Français	Mauritania
356.	60	Translation	 removal of growing media by root washing or plant shaking. 	There was long discussion on whether plant shaking was a treatment and the forum ask for clarification	English	Dominica
357.	61		Verification of the effectiveness of a treatment after application may be necessary. It may be important to verify the effectiveness of a treatment after application. Factors such as temperature may affect the efficacy of certain pesticides.	1) clarified sentence - underscoring necessity, not only importance. 2) Important additional information	English	EPPO, Norway

	1	Comment	Comment	Explanation	Language	Country
no.	no.	type				
			Also, some pesticides may suppress, rather than eradicate, pest populations			
358.	61	Substantive	It may be important to verify the effectiveness of a treatment after application. Factors such as temperature may affect the efficacy of certain pesticides.	Verification of the efficay of the treatment should be done after application where possible. It should not be conveyed as optional.	English	Singapore
			To change to "It is important" or to rephrase to " Verification of the effectiveness of the treatment should be done after application"	<u>L</u>		
359.	61	Substantive	It may be important to verify the effectiveness of a treatment after application. Factors such as temperature may affect the results efficacy of treatments certain pesticides. It may be important to verify the effectiveness of a treatment after application.	More appropriate wording. Deletion: More appropriate as the second sentence in the paragraph	1	United States of America
360.	61	Substantive	Verification of the effectiveness of a treatment after application may be necessary. <u>It may</u> be important to verify the effectiveness of a treatment after application Factors such as temperature may affect the efficacy of certain pesticides. Also, some pesticides may suppress, rather than eradicate, pest populations	1) clarified sentence - underscoring necessity, not only importance. 2) Important additional information	English	European Union
361.	61	Translation	It may be important to verify the effectiveness of a treatment after application. Factors such as temperature may affect the efficacy of certain pesticides.	The term effectiveness should be translated into spanish as "efectividad".	English	Uruguay
362.	61	Translation	It may be important to verify the effectiveness of a treatment after application. Factors such as temperature may affect the efficacy of certain pesticides.	The term effectiveness should be translated into spanish as "efectividad".		COSAVE, Paraguay, Chile, Argentina, Peru, Braz
363.	61	Translation	It may be important to verify the effectiveness of a treatment after application. Factors such as temperature may affect the efficacy of certain pesticides.	The term effectiveness should be translated into spanish as "efectividad".		Ecuador, Mexico, OIRSA, Belize, Costa Rica
364.	62	Editorial	Removal of the original growing media by root washing or plant shaking may be accompanied by a requirement for the plants to be replanted in fresh, pest free growing	It's reasonable in logistic.	English	China

Comm. no.	1	Comment type	Comment	Explanation	Language	Country
			media shortly before export.			
365.	62		The 62nd paragraph should be in the front of the 61st paragraph. Removal of the original growing media by root washing or plant shaking may be accompanied by a requirement for the plants to be replanted in fresh, pest free growing media shortly before export.	Comment: Even if this control option may be relevant, it does't cover the possible pests and diseases located inside/outside the plant material (for instance endo-ectoparasite nematodes such as Meloidogyne or Pratylenchus genera. However, this is a problem relating to the plants for planting and not to the growing media, so it doesn't seem relevant for this standard.		EPPO
366.	62	Substantive	Removal of the original growing media by root washing or plant shaking may be accompanied by a requirement for the plants to be replanted in <u>not previously used</u> fresh, pest free growing media shortly before export.	A word "fresh" for growing media is difficult to determine. We may use a word "not previously used" same as footnote of table 1a.	English	Thailand
367.	62		Removal of the original growing media by root washing or plant shaking may be accompanied by a requirement for the plants to be replanted in fresh, pest free growing media shortly before export.	Comment: Even if this control option may be relevant, it doesn't cover the possible pests and diseases located inside/outside the plant material (for instance endo-ectoparasite nematodes such as Meloidogyne or Pratylenchus genera. However, this is a problem relating to the plants for planting and not to the growing media, so it doesn't seem relevant for this standard.	English	European Union
368.	62	Substantive	Removal of the original growing media by root washing or plant shaking may be accompanied by a requirement for the plants to be replanted in fresh, pest free growing media shortly before export.	Comment: Even if this control option may be relevant, it does't cover the possible pests and diseases located inside/outside the plant material (for instance endo-ectoparasite nematodes such as Meloidogyne or Pratylenchus genera. However, this is a problem relating to the plants for planting and not to the growing media, so it doesn't seem relevant for this standard.	English	Norway
369.	62	Technical	<u>A requirement for r</u> Removal of the original growing media by root washing or plant shaking may be accompanied by a <u>n option</u> requirement for the plants to be replanted in <u>unused</u> fresh, pest free growing media shortly before export.	1) freedom from growing media is the requirement, it is then an option for the exporter to replant in fresh media. 2) To explain what is meant by "fresh" in this context (cf. [76]).	English	EPPO, Norway, Algeria, Morocco
370.	62	Technical	A requirement for rRemoval of the original growing media by root washing or plant shaking may be accompanied by an option requirement for the plants to be replanted in unusedfresh, pest free growing media shortly before export.	1) freedom from growing media is the requirement, it is then an option for the exporter to replant in fresh media. 2) To explain what is	English	European Union

		Comment type	Comment	Explanation	Language	Country
110.	10.	type				
				meant by "fresh" in this context (cf. [76]).		
371.	63	Editorial	After treatment, appropriate measures should be taken to avoid recontamination.	removes assumption that there was contamination in the first place	English	EPPO
372.	63	Editorial	After treatment, appropriate measures should be taken to avoid recontamination.	Removes assumption that there was contamination in the first place.	English	European Union
373.	63	Editorial	After treatment, appropriate measures should be taken to avoid <u>further</u> recontamination.	Better wording	English	Algeria
374.	64	Editorial	52.2 Inspection, sampling and testing	Rearrangement of numbering due to the comment in paragraph 38.	English	Singapore
375.	64	Editorial	5.2-2.2 Inspection, sampling and testing	Restructuring	English	Thailand
376.	64	Editorial	5.2 2.2 Inspection, sampling and testing	This section should be a sub section under Pest Risk Analysis	English	Malaysia
377.	64	Editorial	5.2 2.2 Inspection, sampling and testing	This section should be a sub section under Pest Risk Analysis	English	Korea, Republic of
378.	64	Editorial	5.23 Inspection, sampling and testing	Renumbering sub-section due to new sub- section 5.1 insertion in paragraph 54.	English	Canada
379.	64	Editorial	52.2 Inspection, sampling and testing	This section should be a sub section under Pest Risk Analysis	English	Viet Nam
380.	64	Substantive	4.3 <mark>5.2</mark> Inspection, sampling and testing	See US comment from paragraph 41	English	United States of America
381.	65	Editorial	Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary <u>import</u> requirements. However, inspection is not a reliable method for detecting most pests in soil.	Cf. ISPM 5.	English	EPPO
382.	32. <mark>65</mark>	Editorial	Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in soil.		English	China
			The last sentence in the 65th paragraph is moved to the beginning of the 66th paragraph.			

	1	Comment type	Comment	Explanation	Language	Country
		Editorial	Growing media associated with plants for planting may be inspected in the country of origin	Cf. ISPM 5.	English	European
			or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary <u>import</u> requirements. However, inspection is not a reliable method for detecting most pests in soil.			Union
384.	65	Editorial	Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary <u>import</u> requirements. However, inspection is not a reliable method for detecting most pests in soil.	Cf. ISPM 5.	English	Algeria
385.	65	Substantive	Growing media associated with pPlants for planting and associated growing media may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in soil	Under inspection context, it is not a common practice to inspect growing media at entry, what is carried out is sampling of the plants for planting and inspect for the detection of pests in growing media and plants for planting.	English	Uruguay
386.	65	Substantive	Growing media associated with pPlants for planting and associated growing media may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in soil_ τ	Under inspection context, it is not a common practice to inspect growing media at entry, what is carried out is sampling of the plants for planting and inspect for the detection of pests in growing media and plants for planting.	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
387.	65	Substantive	Growing media associated with pPlants for planting and associated growing media may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in soil	Under inspection context, it is not a common practice to inspect growing media at entry, what is carried out is sampling of the plants for planting and inspect for the detection of pests in growing media and plants for planting.	English	Ecuador, OIRSA, Belize, Costa Rica
388.	65		Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in <u>seil.growing media</u>	It's consistent with before.	English	China
389.	65		Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements (cf. ISPM 23:2005). However, inspection is not a reliable method for detecting most pests in soil.	ISPM 23 should be referred.	English	Thailand
390.	65	Technical	Growing media associated with plants for planting <u>should</u> may <u>may need to</u> be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary <u>import</u> requirements. However, inspection is not a reliable method for detecting most pests in	1) "may" alone does not seem to reflect clearly on the need for an inspection or not. Inspection is inspection wherever it is done. 2) less negative		EPPO, Algeria,

		Comment type	Comment	Explanation	Language	Country
			soil. However, most pests in soil cannot be detected by inspection.	wording.		Morocco
391.	65	Technical	Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in soil growing medium.	only soil	English	Uruguay
392.	65	Technical	Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in soil growing medium.	This is referred to to all growing media and not only soil	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
393.	65	Technical	Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection is not a reliable method for detecting most pests in soil growing medium.	This is referred to to all growing media and not only soil	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
394.	65	Technical	Growing media associated with plants for planting may be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary requirements. However, inspection <u>based solely on visual means</u> is not a reliable method for detecting most pests in soil.	While "inspection" is defined in ISPM5 as being visual, there is benefit in reinforcing that point here which will then also lead into para 66 more logically. Common use of the term "inspection" includes other techniques, including sampling and microscopy that may detect many of the potential pests (as discussed in Para 66).	English	Australia
395.	65	Technical	Growing media associated with plants for planting <u>may may need to</u> be inspected in the country of origin or at the point of entry to the importing country to determine if pests are present or to determine compliance with phytosanitary <u>import</u> requirements. However, inspection is not a reliable method for detecting most pests in soil. However, most pests in soil cannot be detected by inspection.	1) "may" alone does not seem to reflect clearly on the need for an inspection or not. Inspection is inspection wherever it is done. 2) less negative wording.	English	European Union
396.	66	Editorial	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008).	It's reasonable in logistic.	English	China

	1	Comment	Comment	Explanation	Language	Country
no.	no.	type				
			This may include testing for indicator organisms. However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.			
			The last sentence in the 68th paragraph is moved to the beginning of the 68th paragraph.			
397.	66	Editorial	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms that can provide an indication if the growing media has been treated (eg total bac terial or fungal numbers). However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.		English	Australia
398.	66	Substantive	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms. However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.	Last sentence, as it is written, suggests the idea of zero risk, and is not compatible with the principle of managed risk.	English	Uruguay
399.	66	Substantive	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms. However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.	Last sentence, as it is written, suggests the idea of zero risk, and is not compatible with the principle of managed risk.	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
400.	66	Substantive	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms. However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.	Last sentence, as it is written, suggests the idea of zero risk, and is not compatible with the principle of managed risk.	English	Ecuador, Mexico, OIRSA, Belize, Costa Rica
401.	66	Substantive	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms. However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.	The different understandings of indicator organisms will affect implementation of the standard.	English	China
			the explanation or definition of "indicator organisms".			

		Comment type	Comment	Explanation	Language	Country
402.	66	Substantive	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM20:2004 and ISPM31:2008). This may include testing for indicator organisms. However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.	For deletion, this is a very general statement, and testing should be very specific. In addition, NPPOs should identify quarantine pests to trading partners.	English	United States of America
			The places of production and process/treatment procedures of growing media may be inspected, monitored, and approved by the NPPO of exporting country to ensure that phytosanitary import requirements are met in order to prevent contamination. This sentence has replaced to elaborate on mitigation meas implemented at origin. Therefore, Tthe NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms. However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media. Function of the importing country may require sampling and testing of the elaborate on mitigation meas implemented at origin.		English	Canada
104.	66	Technical	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms However, even sampling and testing may be not be a fully reliable detection me thod for many pests, and, in particular, for the detection of low- level infestation of growing media. Therefore, testing may include testing for indicator organi sms (easily detectable organsms whose presence indicates that required measures failed to be effective and that the growing medium may contain regulated pests).However, even sampling and testing may not be a fully reliable detection method for many pests, and in particular, for detecting low-level contamination of growing media.			EPPO, Norway, Algeria
05.	66	Technical	Therefore, the NPPO of the importing country may require sampling and testing of the growing media accompanying plants for planting (cf. ISPM 20:2004 and ISPM 31:2008). This may include testing for indicator organisms. However, even sampling and testing may be not be a fully reliable detection method for man y pests, and, in particular, for the detection of low-level infestation of growing media. Therefore, testing may include testing for indicator organisms (easily detectable organsms whose presence indicates that required measures failed to be effective and that the growing medium may contain regulated pests). However, even sampling and testing medium may contain regulated for many pests, and in particular, for detecting low-level contamination of growing media.		English	European Union
106.	67	Editorial	52.3 Post-entry quarantine	Rearrangement of numbering due to the comment in paragraph 38.	English	Singapore
407.	67	Editorial	5.3 2.3 Post-entry quarantine	Restructuring	English	Thailand

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
408.	67	Editorial	5.3 2.3 Post-entry quarantine	This section should be a sub section under Pest Risk Analysis	English	Malaysia
409.	67	Editorial	5.3 2.3 Post-entry quarantine	This section should be a sub section under Pest Risk Analysis	English	Korea, Republic of
410.	67	Editorial	5. <u>34</u> Post-entry quarantine	Renumbering sub-section due to new sub- section 5.1 insertion in paragraph 54.	English	Canada
411.	67	Editorial	5.3 Post-entry quarantine	Annex changed to Appendix.	English	Nepal
412.	67	Editorial	52.3 Post-entry quarantine	This section should be a sub section under Pest Risk Analysis	English	Viet Nam
413.	67	Substantive	5.3 Post-entry quarantine	This section is not relevant to soil and growing media and applies to viruses and diseases in plants (indexing). Propose deletion of this section.	English	United States of America
414.	68	Substantive	The NPPO of the importing country may require post-entry quarantine (PEQ) to verify compliance or to apply phytosanitary measures before the release of the consignment. ISPMÂ 34:2010 provides guidance for the design and operation of PEQ stations.	This section is not relevant to soil and growing media and applies to viruses and diseases in plants (indexing). Propose deletion of this section.	English	United States of America
415.	68		The NPPO of the importing country may require post-entry quarantine (PEQ) for plants for planting associated with growing media to verify compliance or to apply phytosanitary measures before the release of the consignment. ISPMÃ, 34:2010 provides guidance for the design and operation of PEQ stations.	For consistency with other paragraphs which relate the pest risk management option with growing media associated with plant for planting. The ISPM 34 refers to design and operation of PEQ stations, no related to content of this paragraph	English	Uruguay
416.	68		The NPPO of the importing country may require post-entry quarantine (PEQ) for plants for planting associated with growing media to verify compliance or to apply phytosanitary measures before the release of the consignment. ISPMÃ, 34:2010 provides guidance for the design and operation of PEQ stations.	For consistency with other paragraphs which relate the pest risk management option with growing media associated with plant for planting. The ISPM 34 refers to design and operation of PEQ stations, no related to content of this paragraph	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
417.	68		The NPPO of the importing country may require post-entry quarantine (PEQ <u>) for plants for planting associated with growing media</u> to verify compliance or to apply phytosanitary measures before the release of the consignment. ISPMÃ, 34:2010 provides guidance for the design and operation of PEQ stations.	For consistency with other paragraphs which relate the pest risk management option with growing media associated with plant for planting. The ISPM 34 refers to design and operation of PEQ stations, no related to content of this	English	Ecuador, OIRSA, Belize, Costa Rica

Comm. no.		Comment type	Comment	Explanation	Language	Country
	İ			paragraph		
418.	69		In cases where knowledge about the pest risks is incomplete or there is an indication of a failure of measures taken in the exporting country (e.g. from a significant number of interceptions), PEQ may be an option for monitoring or assessing if the exporting country's measures will reliably meet the required pest managem ent.regaining trust in the reliability of measures taken in the exporting country.	The word 'trust' has connotations that are not appropriate in an ISPM.	English	Australia
419.	69		In cases where knowledge about the pest risks is incomplete or there is an indication of a failure of measures taken in the exporting country (e.g. from a significant number of interceptions), PEQ may be an option for monitoring or regaining trust in the reliability of measures taken in the exporting country.	Under this section pest risk management options are being described, PEQ is an option as mentioned in paragraph 68. Text was deleted because refers to measures to be taken in case of non compliance, which do not correspond to include here	English	Uruguay
420.	69		In cases where knowledge about the pest risks is incomplete or there is an indication of a failure of measures taken in the exporting country (e.g. from a significant number of interceptions), PEQ may be an option for monitoring or regaining trust in the reliability of measures taken in the exporting country.	Under this section pest risk management options are being described, PEQ is an option as mentioned in paragraph 68. Text was deleted because refers to measures to be taken in case of non compliance, which do not correspond to include here	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
421.	69		In cases where knowledge about the pest risks is incomplete or there is an indication of a failure of measures taken in the exporting country (e.g. from a significant number of interceptions), PEQ may be an option for monitoring or regaining trust in the reliability of measures taken in the exporting country.	Under this section pest risk management options are being described, PEQ is an option as mentioned in paragraph 68. Text was deleted because refers to measures to be taken in case of non compliance, which do not correspond to include here	English	Ecuador, OIRSA, Belize, Costa Rica
422.	69		In cases where knowledge about the pest risks is incomplete or there is an indication of a failure of measures taken in the exporting country (e.g. from a significant number of interceptions), PEQ may be an option for monitoring or regaining trust in the reliability of measures taken in the exporting country.	This section is not relevant to soil and growing media and applies to viruses and diseases in plants (indexing). Propose deletion of this section.	English	United States of America
423.	70	Editorial	52.4 Prohibition	rearrangement of numbering due to the comments in paragrap 38.	English	Singapore
424.	70	Editorial	5.4- <u>2.4</u> Prohibition	Restructuring	English	Thailand
425.	70	Editorial	5.4- <u>2.4</u> Prohibition	This section should be a sub section under Pest Risk Management Option	English	Malaysia
426.	70	Editorial	5.4 2.4 Prohibition	This section should be a sub section under Pest Risk Management Option	English	Korea, Republic of

Comm.		Comment	Comment	Explanation	Language	Country
10.	no.	type				
427.	70	Editorial	5.4 <u>5</u> Prohibition	Renumbered due to new sub-section 5.1 insertion in paragraph 54.	English	Canada
128.	70	Editorial	52.4 Prohibition	This section should be a sub section under Pest Risk Management Option	English	Viet Nam
129.	70	Substantive	4.5 <mark>5.4</mark> Prohibition	See US comment on paragraph 41	English	United States of America
130.	71	Editorial	some growing media (in particular soil), in combination with certain plants for planting, the measures outlined in this standard are not applicable or feasible, or the measures y cannot provide sufficient protection, the entry of the consignments of plants for plants for planting associated with containing those particular growing media may be prohibited.		English	EPPO, Algeria
131.	71	Editorial	In cases where for some growing media (in particular soil), in combination with certain plants for planting, the measures outlined in this standard are not applicable or feasible, or they cannot provide sufficient protection, the entry of the consignment of plants for planting containing those the risks associated with growing media cannot be managed to a sufficient level, then particular growing media may be prohibited.	clearer statement of issue being addressed	English	Australia
132.	71	Editorial	In cases where the measures outlined in this standard are not applicable or feasible for some growing media (in particular soil), in combination with certain plants for planting, the measures outlined in this standard are not applicable or feasible, or the measures y cannot provide sufficient protection, the entry of the consignments of plants for planting associated with containing those particular growing media may be prohibited.	Rewording for better English and consistency with previous wording.	English	European Union
133.	71		In cases where for some growing media (in particular soil), in combination with certain plants for planting, the measures outlined in this standard are not applicable or feasible, or they cannot provide sufficient <u>phytosanitary</u> protection, <u>or have not been implemented by the NPPO of the exporting country</u> , the entry of the consignment of plants for planting containing those particular growing media may be prohibited <u>by the NPPO of the importing country</u> .	To introduce the concept of non-compliance into the standard (was in original EWG draft, but later removed). ***STFO and PM comments differ***		United States of America
434.	71	Technical	In cases where for some growing media (in particular soil), in combination with certain plants for planting, the measures outlined in this standard are not applicable or feasible, or they cannot provide sufficient <u>phytosanitary</u> protection, the entry of the consignment of plants for planting containing those particular growing media may be prohibited.	to be more specific	English	EPPO, Norway, Algeria
435.	71	Technical	In cases where for some growing media (in particular soil), in combination with certain plants for planting, the measures outlined in this standard are not applicable or feasible, or	To be more specific.	English	European

		Comment type	Comment	Explanation	Language	Country
	110.	type				
			they cannot provide sufficient <u>phytosanitary</u> protection, the entry of the consignment of plants for planting containing those particular growing media may be prohibited.			Union
436.	72	Editorial	This annex_appendix was adopted by the Commission on Phytosanitary Measures in [Month 201-].	Annex changed into appendix	English	Thailand, Malaysia
437.	72	Editorial	This annex was adopted by the Commission on Phytosanitary Measures in [Month 201-].	Annex changed to Appendix.	English	Nepal
438.	72	Substantive	This <u>annex appendix</u> was adopted by the Commission on Phytosanitary Measures in [Month 201-].	As the content of this document does not comprise of any requirements, it should be an appendix instead.	English	Singapore
439.	72	Substantive	This annexappendix was adopted by the Commission on Phytosanitary Measures in [Month 201-].	Annex changed into appendix	English	Viet Nam
440.	72	Technical	annexappendix was adopted by the Commission on Phytosanitary Measures in [Month Annex changed into appendix 201-].		English	Korea, Republic of
441.	73	Editorial	The annex-appendix is a prescriptive part of the standard. Annex changed into appendix		English	Thailand, Malaysia
442.	73	Editorial	The annexappendix is a prescriptive part of the standard.	Annex changed into appendix	English	Korea, Republic of
443.	73	Editorial	The annex is a prescriptive part of the standard.	Annex changed to Appendix.	English	Nepal
444.	73	Editorial	The <u>annexappendix</u> is a prescriptive part of the standard.	Annex changed into appendix	English	Viet Nam
445.	73	Substantive	The annex is a prescriptive part of the standard.	To change this "annex" into an "appendix" & hence there is no need for this sentence. There are no specific requirements required of an "annex" in this document and hence it should be an appendix instead.	English	Singapore
446.	74	Editorial	ANNEX 1a: Pest risks of various constituents of growing media	Renumber the annex to account for deletion of Annex 1b under para. 77	English	Canada
447.	74	Substantive	ANNEX 1a: Pest risks of various constituents of growing media	6 pest risk categories are described, which does not provide clear guidance in relation to pest risks of consituents of growing media. Moreover	English	Uruguay

		Comment type	Comment	Explanation	Language	Country
				it is not clear the distinction amongst them (e.g differences between variable low and low- medium), that may cause confusion to NPPO because there is no a clear indication for each category. Categories should be better described and be associated with the corresponding comments (e.g. low pest risk when level of processing is high and high pest risk when level of processing is low, etc)		
448.	74		ANNEX 1a: Pest risks of various constituents of growing media See explanation	6 pest risk categories are described, which does not provide clear guidance in relation to pest risks of consituents of growing media. Moreover it is not clear the distinction amongst them (e.g differences between variable low and low- medium), that may cause confusion to NPPO because there is no a clear indication for each category. Categories should be better described and be associated with the corresponding comments (e.g. low pest risk when level of processing is high and high pest risk when level of processing is low, etc)	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
				risk evaluation for adoption but there should be assurance that the risk levels had been technically assessed provided in the standard. Without supporting information, the table should be changed to an appendix or removed entirely.	English	Singapore
450.	74	Substantive	APPENDIX ANNEX 1a: Pest risks of various constituents of growing media	This Annex should be made into Appendix	English	Thailand, Malaysia
451.	74		ANNEX 1a: Pest risks of various constituents of growing media Note: The table outlines the pest risk for growing media not previously used for planting and which have been handled and stored in a way that prevents contamination	This statement is too important to be left as a footnote, it should be a note under the title. Text mostly from para 76	English	Australia
452.	74	Substantive	APPENDIX ANNEX 1a: Pest risks of various constituents of growing media	This Annex should be made into Appendix	English	Korea, Republic of

		Comment	Comment	Explanation	Language	Country
no.	no.	type				
453.	74		ANNEX 1a:Relative, phytosanitary Pest risks of various components constituents of growing media There is a range of pest risk associated with the type of growing media in association with plants for planting, as broadly ranked below from lowest to highest pest risk (recognizing that these rankings may vary depending on specific circumstances):	More appropriate wording Global change to component. Suggest adding examples of treatments for each type of growing media. See US general comment. To match wording in Annex 1 of ISPM 36. This table would not be necessary if the standard would merely recommend that all media be heat treated or fumigated prior to use. But if the standard is kept as presented, the title should clarify that it refers to risk PRIOR to planting plants in the media (as it is stated in page 4 of the text).	English	United States of America
454.	74	Substantive	ANNEX <u>APPENDIX</u> 1a: Pest risks of various constituents of growing media	This is the regional comment made by the 14th APPPC Regional Workshop on Review of draft ISPMs.	English	Japan
455.	74	Substantive	ANNEX 1a: <u>Relative</u> Ppest risks of various constituents of growing media	New wording required as risk levels are relative rather than absolute.	English	Canada
456.	74	Substantive	ANNEX 1a: Pest risks of various constituents of growing media	The Annex should be made into Appendix.	English	Nepal
457.	74	Substantive	ANNEXAPPENDIX 1a: Pest risks of various constituents of growing media	This Annex should be made into Appendix	English	Viet Nam
458.	74	Technical	ANNEX 1a: Pest risks of various constituents of growing media This table refers to growing media not previously used for planting and which have been handled and stored in a way that prevents contamination.	Addition for clarity	English	EPPO, Norway, Algeria
459.	74	Technical	APPENDIXANNEX 1a: Pest risks of various constituents of growing media	Information contained in this annex is only refere nce information.	English	Uruguay
460.	74	Technical	APPENDIXANNEX-1a: Pest risks of various constituents of growing media	Information contained in this annex is only refere nce information.		COSAVE, Paraguay, Chile, Argentina, Peru, Braz
461.	74	Technical	ANNEX 1a: Pest risks of various constituents of growing media	6 pest risk categories are described, which does not provide clear guidance in relation to pest risks of consituents of growing media. Moreover it is not clear the distinction amongst them (e.g differences between variable low and low- medium), that may cause confusion to NPPO	English	Ecuador, OIRSA, Belize, Costa Rica

		Comment	Comment				Explanation	Language	Country
no.	no.	type							
							because there is no a clear indication for each category. Categories should be better described and be associated with the corresponding comments (e.g. low pest risk when level of processing is high and high pest risk when level of processing is low, etc)		
462.	74	Technical	ANNEX 1a: Pest risks of various cor	-	-		Addition for clarity.	English	European Union
			This table refers to growing media not handled and stored in a way that preve			<u>d which have been</u>			
463.	75	Editorial	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	surely native earthworms can vector pests	English	Australia
			Baked clay pellets	Low	No	Inert			
			Pure clay	Low	No	n/a	des ck ng een		
			Gravel, sand, silt	Low	No	Inert			
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot and cyst nematodes can survive in rock wool)			
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
			Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on level of processing (e.g. red ring nematode has been found in the husks of fallen nuts)			
			Paper	Low	Yes	High level of processing			

Comm no.		ra. Comment type	Comment		Explanation	Language	Country		
			Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and level of processing reduces the probability of pest survival after processing			
			Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwise sterilized before use			
			Water	Low	Yes	Risk depends on source or treatment			
			Wood chips	Medium	Yes	Risk depends on particle size and level of processing			
			Cork	Variable low	Yes	Risk depends on level of processing			
			Peat	Variable low	Yes	Peat is a natural habitat for nematodes, mostly bacterial and fungal eaters; risk is lower where the origin has had no agricultural exposure (e.g. certified bogs)			
			Sphagnum moss	Variable high	Yes	Risk depends on level of processing			
			Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if treated or from a clean non-infested source			
			Bark	High	Yes	Risk depends on source (potential to harbour forest pests) and degree			

		Comment type	Comment					Explanation	Language	Country
							of processing or fermentation	-		
			Bio waste		High	Yes	Unprocessed waste from plant or animal sources related to human activities			
			Compost		High	Yes	Risk reduced if produced by an approved process; risk increased if material is from an unknown source			
			Humus		High	Yes	Decomposed plant matter			
			Soil		High	Yes	Risk can be reduced if treated			
			Tree fern slabs		High	Yes	Potential to harbour forest pests			
			Vermicompost (vermicast pluearthworms)	IS	High	Yes	Some non-native earthworms may be vectors of pests	_		
464.	75	Editorial	Composants de milieux de culture	Risque	bhytosanitaire ¹	Favorise la survie de l'organisme nuisible	Observations	s/o: écrire en toutes lettres	Français	Gabon, Congo, DR*
			Billes d'argile cuites	Faible		Non	Inerte			
			Argile pure	Faible		Non	s/o			
			Gravier, sable, limon	Faible		Non	Inerte			
			Milieu synthétique (par exemple, laine de verre, laine minérale, polystyrène, mousse florale, particules de plastique, polyéthylène, amidon stabilisé polymère,	Faible		Non	Inerte (mais les nématodes à galle des racines et les nématodes à kyste peuvent survivre dans de la laine			

Para. no.	Comment type	Comment				Explanation	Language (Country
		polyuréthane, polymères hydrorétenteurs)			minérale)			
		Vermiculite, perlite, roche volcanique, zéolite, scories	Faible	Non	Inerte			
		Fibre de coco (tourbe de coco/coir)	Variable faible	Oui	Le risque dépend du degré de transformation (par exemple, des nématodes responsables de la maladie de l'anneau rouge ont été retrouvés dans l'enveloppe fibreuse de noix tombées)			
		Papier	Faible	Oui	Degré de transformation élevé	-		
		Sciure, planure de bois (fibre de bois)	Faible–moyen	Oui	La taille des particules et le degré de transformation font baisser la probabilité de survie des organismes nuisibles après transformation			
		Milieu de culture tissulaire (de type agar)	Faible	Oui	Stérilisé, notamment autoclavé, avant utilisation			

1	Comment type	Comment				Explanation	Language	Country
		Eau	Faible	Oui	Le risque est fonction de la source ou du traitement			
		Copeaux de bois	Moyen	Oui	Le risque est fonction de la taille des particules et du degré de transformation			
		Liège	Variable faible	Oui	Le risque est fonction du degré de transformation			
		Tourbe	Variable faible	Oui	La tourbe est un habitat naturel des nématodes, qui se nourrissent principalement de bactéries et de champignons; le risque est plus faible lorsque l'origine n'a pas été exposée à l'agriculture (par exemple, tourbières certifiées)			
		Sphaigne	Variable élevé	Oui	Le risque est fonction du degré de transformation			
		Autre matériel végétal (par exemple, balles de riz/paillette, balles de céréales, parches, résidus de canne à sucre, marc de raisin, cabosses)	Variable élevé	Oui	Le risque est moins élevé si le substrat est traité ou s'il provient d'une source saine non infestée			
		Écorce	Élevé	Oui	Le risque est fonction de la			

		Comment	Comment					Explanation	Language	Country
no.	no.	type								
							source (potentiel d'abriter des ravageurs forestiers) et du degré de transformation ou de fermentation			
			Déchets biologiques	Élevé		Oui	Déchets d'origine végétale ou animale non transformés liés à des activités humaines			
			Compost	Élevé		Oui	Le risque est moins élevé si le compost est produit selon un processus approuvé; il est accru si sa provenance n'est pas connue			
			Humus	Élevé		Oui	Matière végétale décomposée			
			Terre	Élevé		Oui	Le risque peut être réduit avec un traitement			
			Plaques de fougère arborescente	Élevé		Oui	Abri potentiel de ravageurs forestiers			
			Vermicompost (fumier de vers de terre et vers de terre)	Élevé		Oui	Certains vers de terre non autochtones peuvent être vecteurs d'organismes nuisibles			
465.	75	Substantive	Constituents of growing r	nedia	Pest risk ¹	Support	Comments	The lines should be reorganized by pest risk. The term "low" was deemed to imprecise in this	English	EPPO
					0		1	context, and two extra grades of risk, "none" and		

. Para. no.	Comment type	Comment				Explanation	Language	Country
				pest survival		"negligible" were added for clarity, keeping in mind that this this table refers to growing media not previously used for planting and which have		
		Baked clay pellets	none <mark>Low</mark>	No	Inert	been handled and stored in a way that prevents		
		Pure clay, gravel and sand	negligible <mark>Low</mark>	No	n/a	contamination.		
		Gravel, sand, silt	Low	No	Inert			
	ז א א א ע	Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	<u>none</u> Low	No	Inert (but root knot and cyst nematodes can survive in rock wool)			
		Vermiculite, perlite, volcanic rock, zeolite, scoria	none <mark>Low</mark>	No	Inert			
		Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on level of processing (e.g. red ring nematode has been found in the husks of fallen nuts)			
		Paper	Low	Yes	High level of processing			
		Sawdust, wood shavings (excelsior)	Low–Medium	Yes	Size of particles and level of processing reduces the probability of pest survival after processing			
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwise sterilized before use			
		Water	Low	Yes	Risk depends on source or treatment	_		

	Comment type	Comment				Explanation	Language	Country
		Wood chips	Medium	Yes	Risk depends on particle size and level of processing			
		Cork	Variable low	Yes	Risk depends on level of processing			
		Peat	Variable low	Yes	Peat is a natural habitat for nematodes, mostly bacterial and fungal eaters; risk is lower where the origin has had no agricultural exposure (e.g. certified bogs)			
		Sphagnum moss	Variable high	Yes	Risk depends on level of processing			
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if treated or from a clean non-infested source			
		Bark	High	Yes	Risk depends on source (potential to harbour forest pests) and degree of processing or fermentation			
		Bio waste	High	Yes	Unprocessed waste from plant or animal sources related to human activities			
		Compost	High	Yes	Risk reduced if produced by an approved process; risk increased if material is from an unknown source			

	1	Comment type	Comment				Explanation	Language	Country
		-71							
			Humus	High	Yes	Decomposed plant matter			
			Soil	High	Yes	Risk can be reduced if treated			
			Tree fern slabs	High	Yes	Potential to harbour forest pests			
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native earthworms may be vectors of pests			
466.	75	Substantive	Constituents of growing media	Pest risk ⁴	Support pest survival	Comments	Delete the second column, the level of pest risk should be assessed by the experts of each countries. The standard should not indicate the likelihood.	English	Thailand
			Baked clay pellets	Low	No	Inert			
			Pure clay	Low	No	n/a			
			Gravel, sand, silt	Low	No	Inert			
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot and cyst nematodes can survive in rock wool)	es		
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
			Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on level of processing (e.g. red ring nematode has been found in the husks of fallen nuts)			
			Paper	Low	Yes	High level of processing			

Comm no.	Comment type	Comment				Explanation	Language	Country
		Sawdust, wood shavings (excelsior)	Low-Modium	Yes	Size of particles and level of processing reduces the probability of pest survival after processing			
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwise sterilized before use			
		Water	Low	Yes	Risk depends on source or treatment			
		Wood chips	Medium	Yes	Risk depends on particle size and level of processing			
		Cork	Variable low	Yes	Risk depends on level of processing			
		Peat	Variable low	Yes	Peat is a natural habitat for nematodes, mostly bacterial and fungal eaters; risk is lower where the origin has had no agricultural exposure (e.g. certified bogs)			
		Sphagnum moss	Variable high	Yes	Risk depends on level of processing			
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if treated or from a clean non-infested source			
		Bark	High	Yes	Risk depends on source (potential to harbour forest pests) and degree	_		

		Comment type	Comment						Explanation	Language	Country
								of processing or fermentation			
			Bio waste		High		Yes	Unprocessed waste from plant or animal sources related to human activities			
			Compost		High		Yes	Risk reduced if produced by an approved process; risk increased if material is from an unknown source			
			Humus		High		Yes	Decomposed plant matter			
			Soil		High		Yes	Risk can be reduced if treated			
			Tree fern slabs		High		Yes	Potential to harbour forest pests			
			Vermicompost (vermic earthworms)	cast plus	High		Yes	Some non-native earthworms may be vectors of pests			
467.	75	Substantive	Constituents of growing media	Pest risk Probabil ity of pest be ing present ¹	Suppor t pest surviva I	Comme	nts		The assessments of risk will be contentious. Given that this is a prescriptive part of the ISPM much more explantion needs to be provided about how the risk ratings were reached and the assumptions used. Specific example comments:	English	Australia
			Baked clay pellets	Low	No-Low	Inert			Gravel, sand, silt: these are only inert and of a		
			Pure clay	Low	No Low	n/a			low risk if pure and mostly they are not 100% clean. Gravel is the easiest to clean due to		
			Gravel, sand, silt	Low	No Low	Inert only	y if cleaned		structure and silt is really a type of soil. Pest risk		
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles,	Low	No Low		t root knot ar ive in rock w	nd cyst nematodes ool)	column heading: column seems to be about the probability of pests being on or in the media not about risk (probability/potential for harm) as used in the IPPC. Risk column - The risk for these media are variable due to differences in processing, origin or treatment; indicating high of		

	polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers) Vermiculite, perlite,				low when the risk is variable is confusing. For example with variable high, is the risk high before or after processing? Or is it low after processing? It is not clear. sawdust - Processing of wood may reduce the pest risk of some timber pests, but it can also change the pest risk as it allows for the establishment a different		
	volcanic rock, zeolite, scoria	Low	No <u>Low</u>	Inert	ecosystem with a different set of fauna. For example, shaving/chipping increases the surface		
	Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on level of processing (e.g. red ring nematode has been found in the husks of fallen nuts)	area available for fungi to sporalate and increased humidity allowing infestion/survival of other pests. In addition, pathogenic fungi and nematodes can remain in sawdust after		
	Paper	Low	Yes	High level of processing	production. entries 1-5: Many organisms would		
	Sawdust, wood shavings (excelsior)	Low- Mediumvaria ble	Yes	Size of particles and level of processing may reduces the probability of pest survival after processing, however wood shavings can c hange te enironment to promote pest infes tation	be capable of surving on/in these materials. They are not necessarily inert – indeed many of these substances provide protected surfaces/structures that will promote survival of organisms. Water: water is often contaminated with pests depending on its source and treatment woodchip - Processing of wood may reduce the pest risk of		
	Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwise sterilized before use	some timber pests, but it can alsochange the pest risk as it allows for the establishment a		
	Water	<u>Variable</u> Low	Yes	Risk depends on source or treatment	different ecosystem with a different set of fauna.		
	Wood chips	<u>Variable</u> Medi um	Yes	Risk depends on particle size and level of processingSize of particles and the level of processing may reduce the probability of pest survival, however wood chipping can change the environment to promote pest infestation.	For example, shaving/chipping increases the surface area available for fungi to sporalate and increased humidity allowing infestion/survival of other pests. Peat - Given the way the material is produced and harvested weed seeds are common. Should also define peat, ie sphagnum or sedge derived as different pest risk profiles for		
	Cork	Variable low	Yes	Risk depends on level of processing	each commodity. tolerances for an non peat		
	Peat	Variable low	Yes	Peat is a natural habitat for nematodes, mostly bacterial and fungal eaters; risk is lower where the origin has had no agricultural exposure (e.g. certified bogs). Weed seeds common.	material should also be included as some commercial products may include soil scalpings depending on how the peat was harvested. Sphagnum moss - should specify whether the moss is living or dead, as living moss routinuing includes weed seeds and other biological risk		
1	Sphagnum moss	Variable high	Yes	Risk depends on level of processing	material. Should there be a requirement for the		

	Comment type	Comment				Explanation	Language	Country
		Other plant material				moss: Given the way the material is produced and harvested weed seeds are common Tree		
		(e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if treated or from a clean non-infested source	fern slabs: Many broad host range pests (not just forest) could be present depending on the production area etc Bio waste: risk would be highly variable depending on source		
	Bark	High	Yes	Risk depends on source (potential to harbour forest pests) and degree of processing or fermentation				
		Bio waste	High	Yes	Unprocessed waste from plant or animal sources related to human activities			
		Compost	High	Yes	Risk reduced if produced by an approved process; risk increased if material is from an unknown source			
		Humus	High	Yes	Decomposed plant matter			
		Soil	High	Yes	Risk can be reduced if treated			
		Tree fern slabs	High	Yes	Potential to harbour forest-pests	-		
		Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native earthworms may be vectors of pests			

		Comment type	Comment				Explanation	Language	Country
no.	no.	type							
468.	75	Substantive					Suggest changing the column header "Pest risk" to "Relative phytosanitary risk". Suggest adding footnote to this column header "This is an indicative list because the PRA will determine the actual risk level." Suggest changing the column header "Constituents of growing media" to "Components of growing media" Suggest adding footnote to column 1 header "Not an exhaustive list" Clay, sand, and silt are not inert. They merely have a lower cation exchange capacity than organic material. Vermiculite and perlite are not inert either, but the heat of production renders them virtually sterile.		United States of America
			Constituents of growing media	Pest risk ¹	Support pest survival	Comments			
			Baked clay pellets	Low	No	Inert			
			Pure clay	Low	No	n/a			
			Gravel, sand, silt	Low	No	Inert			
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch,	Low	No	Inert (but root knot and cyst nematodes can survive in rock wool)			

Para. no.	Comment type	Comment				Explanation	Language	Country
		polyurethane, water absorbing polymers)				_		
		Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
		Coconut fibres (coir/coco peat)	Varia ble low	Yes	Risk depends on level of processing (e.g. red ring nematode has been found in the husks of fallen nuts)			
		Paper	Low	Yes	High level of processing	-		
		Sawdust, wood shavings (excelsior)	Low Medi um	Yes	Size of particles and level of processing reduces the probability of pest survival after processing			
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwise sterilized before use			
		Water	Low	Yes	Risk depends on source or treatment			
		Wood chips	Medi um	Yes	Risk depends on particle size and level of processing			
		Cork	Varia ble low	Yes	Risk depends on level of processing			
		Peat	Varia ble low	Yes	Peat is a natural habitat for nematodes, mostly bacterial and fungal eaters; risk is lower where the origin has had no agricultural exposure (e.g. certified bogs)			
		Sphagnum moss	Varia ble high	Yes	Risk depends on level of processing			
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls,	Varia ble	Yes	Risk is reduced if treated or from a clean non-infested			

	1	Comment	Comment				Explanation	Language	Country
no.	no.	type							
			sugarcane refuse, grape marc, cocoa pods)	high		source			
			Bark	High	Yes	Risk depends on source (potential to harbour forest pests) and degree of processing or fermentation			
			Bio waste	High	Yes	Unprocessed waste from plant or animal sources related to human activities			
			Compost	High	Yes	Risk reduced if produced by an approved process; risk increased if material is from an unknown source			
			Humus	High	Yes	Decomposed plant matter			
			Soil	High	Yes	Risk can be reduced if treated			
			Tree fern slabs	High	Yes	Potential to harbour forest pests			
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native earthworms may be vectors of pests			
469.	75	Substantive		Pest	Support pest		Replace "Sphagnum" as other mosses may be	English	Canada
			Constituents of growing media		survival	Comments	used as growing media and replace by the term "non-viable moss to avoid confusion as a viable		
			Baked clay pellets	Low	No	Inert	moss would be considered a plant. Biowaste:		
			Pure clay	Low	No	n/a	Remove the text that defines bio waste in the fourth column of the table as a definition is not		
			Gravel, sand, silt	Low	No	Inert	needed in this table and insert new text		
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot and cyst nematodes can survive in rock wool)	describing the risk of bio waste. Delete the row related to Humus as this would be classified under compost and should therefore not have its own line in this table. Delete the reference to vermicast plus earthworms in the first column as Vermicompost does not generally include the actual worms. Delete the text related to natine		
							earthworms and add new text in the Comments column to clarify what vermicompost may		

Comm. no.	Comm. Para. Comme no. no. type		Comment			Explanation	Language	Country	
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert	contain.		
			Coconut fibres (coir/coco peat)	Varia ble low	Yes	Risk depends on level of processing (e.g. red ring nematode has been found in the husks of fallen nuts)			
			Paper	Low	Yes	High level of processing			
			Sawdust, wood shavings (excelsior)	Low– Medi um	Yes	Size of particles and level of processing reduces the probability of pest survival after processing			
			Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwise sterilized before use			
			Water	Low	Yes	Risk depends on source or treatment			
			Wood chips	Medi um	Yes	Risk depends on particle size and level of processing			
			Cork	Varia ble low	Yes	Risk depends on level of processing			
			Peat	Varia ble low	Yes	Peat is a natural habitat for nematodes, mostly bacterial and fungal eaters; risk is lower where the origin has had no agricultural exposure (e.g. certified bogs)			
			Sphagnum moss Non-viable moss	Varia ble high	Yes	Risk depends on level of processing			
			Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa	Varia ble high	Yes	Risk is reduced if treated or from a clean non-infested source			

Comm. no.	1	Comment type	Comment						Explanation		Language	Country
		lype										
			pods)									
			Bark	High	Yes) A	(potenti pests) a	pends on source al to harbour forest ind degree of ing or fermentation				
			Bio waste	High	Yes	 + 2	plant or related activitie	essed waste from animal sources to human s Risk depends on and processing of I.				
			Compost	High	Yes	a i	an appr increase	duced if produced by oved process; risk ed if material is from own source				
			Humus	High	Yes	ŧ	Decomposed plant matter					
			Soil	High	Yes		Risk ca treated	n be reduced if				
			Tree fern slabs	High	Yes		Potentia pests	al to harbour forest				
			Vermicompost (vermicast plus earthworms)	High	Yes	e r	earthwo of pests remains	on-native <u>orms may be vectors</u> <u>May include</u> <u>of undigested</u> <u>material</u>				
470.	75	Substantive	Constituents of growing media	Pest	risk ¹	Supp pest survi		Commonto	The term "low context, and t	uld be reorganized by pest risk. " was deemed to imprecise in this wo extra grades of risk, "none" and ere added for clarity, keeping in	English	European Union
			Baked clay pellets	none	_OW	No		Inert	mind that this	this table refers to growing media		
			Pure clay, gravel and sand	neglig	ible <mark>Low</mark>	No		n/a		used for planting and which have and stored in a way that prevents		
			Gravel, sand, silt	Low		No			contamination			
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene,	none	_0W	No		Inert (but root knot an nematodes can surviv wool)				

1	Comment type	Comment				Explanation	Language	Country
		polymer stabilized starch, polyurethane, water absorbing polymers)						
		Vermiculite, perlite, volcanic rock, zeolite, scoria	none <mark>Low</mark>	No	Inert			
		Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red r nematode has been f husks of fallen nuts)	ng		
		Paper	Low	Yes	High level of processi	ng		
		Sawdust, wood shavings (excelsior)	Low–Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	e		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwisterilized before use	se		
		Water	Low	Yes	Risk depends on sour	ce or		
		Wood chips	Medium	Yes	Risk depends on part and level of processir			
		Cork	Variable low	Yes	Risk depends on leve processing	of		
		Peat	Variable low	Yes	Peat is a natural habit nematodes, mostly ba fungal eaters; risk is le the origin has had no exposure (e.g. certifie	cterial and ower where agricultural		
		Sphagnum moss	Variable high	Yes	Risk depends on leve processing	of		
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa	Variable high	Yes	Risk is reduced if trea a clean non-infested s			

Comm. no.		Comment type	Comment				Explanation	Language	Country
			pods)						İ
			Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	forest		
			Bio waste	High	Yes	Unprocessed waste f animal sources relate activities			
			Compost	High	Yes	Risk reduced if produ approved process; ris if material is from an u source	sk increased		
			Humus	High	Yes	Decomposed plant m	hatter		
			Soil	High	Yes	Risk can be reduced	if treated		
			Tree fern slabs	High	Yes	Potential to harbour for	orest pests		
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native earl may be vectors of pe			
471.	75	Substantive	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	The lines should be reorganized by pest risk. The term "low" was deemed to imprecise in th context, and two extra grades of risk, "none" a "negligible" were added for clarity, keeping in		Norway
			Baked clay pellets	none <mark>Low</mark>	No	Inert	mind that this this table refers to growing med		
			Pure clay, gravel and sand	negligible	No	n/a	not previously used for planting and which have been handled and stored in a way that preven		
			Gravel, sand, silt	Low	No	Inert	contamination. Risk of sphagnum moss is sim		
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	none <mark>Low</mark>	No	Inert (but root knot an nomatodos can surviv wool)			
			Vermiculite, perlite, volcanic rock, zeolite, scoria	noneLow	No	Inert			
			Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red r			

1	Comment type	Comment		Explanation	Language	Country		
					nematode has been for husks of fallen nuts)	ound in the		
		Paper	Low	Yes	High level of processi	ing		
		Sawdust, wood shavings (excelsior)	Low–Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	he		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwisterilized before use	ise		
		Water	Low	Yes	Risk depends on sour	ice or		
		Wood chips	Medium	Yes	Risk depends on part and level of processir	tcle size g		
		Cork	Variable low	Yes	Risk depends on leve processing	of		
		Peat	Variable low	Yes	Peat is a natural habit nematodes, mostly ba fungal eaters; risk is le the origin has had no exposure (e.g. certifie	acterial and ower where agricultural		
		Sphagnum moss	Variable <u>Iow</u> high	Yes	Risk depends on leve processing	of		
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s			
		Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	fþrest		
		Bio waste	High	Yes	Unprocessed waste finanimal sources relate			

Comm. no.	Para. no.	Comment type	Comment				Explanation	Languago	Country
						activities			
			Compost	High	Yes	Risk reduced if produ approved process; ris if material is from an u source	sk increased		
			Humus	High	Yes	Decomposed plant m	atter		
			Soil	High	Yes	Risk can be reduced	if treated		
			Tree fern slabs	High	Yes	Potential to harbour for	orest pests		
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native earl may be vectors of pe			
472.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	EWG RU: The comment "not applicable" in collumn "comments" of the line "pure clay" not make sense and needs to be precised. words "variable low" and "variable high" ca	does The	EPPO
			Baked clay pellets	Low	No	Inert (?)	precision. The word "inert" would gain from		
			Pure clay	Medium _{Low}	No	n/a ? Depends on the	having a definition.		
			Gravel, sand , silt	Medium _{Low}	No	Depends on the horiz			
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)			
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
			Coconut fibres (coir/coco peat)	Variable low <u>?</u>	Yes	Risk depends on leve processing (e.g. red r nematode has been f husks of fallen nuts)	ring		
			Paper	Low	Yes	High level of processi	ing		
			Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces the			

1	Comment type	Comment				Explanation	Language	Country
					probability of pest sur processing	vival after		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherw sterilized before use	ise		
		Water	Low	Yes	Risk depends on sou treatment	ICE OF		
		Wood chips	Medium	Yes	Risk depends on part and level of processir			
		Cork	Variable low (?)	Yes	Risk depends on leve processing	of		
		Peat	Variable low (?)	Yes	Peat is a natural habi nematodes, mostly ba fungal eaters; risk is l the origin has had no exposure (e.g. certifie	cterial and ower where agricultural		
		Sphagnum moss	Variable high <u>(?)</u>	Yes	Risk depends on leve processing	e of		
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high <u>(?)</u>	Yes	Risk is reduced if trea a clean non-infested s			
		Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	forest		
		Bio waste	High	Yes	Unprocessed waste fr animal sources relate activities			
		Compost	High	Yes	Risk reduced if produ approved process; ris if material is from an u source	k increased		
		Humus	High	Yes	Decomposed plant m	atter		
		Soil	High	Yes	Risk can be reduced	if treated		

	Para. no.	Comment type	Comment				Explanatio	n	Language	Country
			Tree fern slabs	High	Yes	Potential to harbour fo	rest pests			
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native eart may be vectors of per				
73.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	growing me	dium was produced and not its rmicompost Row: to clarify, they may	English	Uruguay
			Baked clay pellets	Low	No	Inert				
			Pure clay	Low	No	n/a				
			Gravel, sand, silt	Low	No	Inert				
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)				
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert				
			Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red r nematode has been fo husks of fallen nuts)	ng	the		
			Paper	Low	Yes	High level of processi	ng			
			Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	e			
			Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwi sterilized before use	se			
			Water	Low	Yes	Risk depends on sour treatment	ce or			
			Wood chips	Medium	Yes	Risk depends on part	cle size			

	1	Comment type	Comment				Explanation	Language	Country
						and level of processir	g		
			Cork	Variable low	Yes	Risk depends on leve processing	of		
			Peat	Variable low	Yes	Peat is a natural habi nematodes, mostly ba fungal eaters; risk is l the origin has had no exposure (e.g. certifie	cterial and ower where agricultural		
			Sphagnum moss	Variable high	Yes	Risk depends on leve processing	of		
			Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s			
			Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	brest		
			Bio waste	High	Yes	Unprocessed waste f animal sources relate activities			
			Compost	High	Yes	Risk <u>can be</u> reduced depending on if produ approved the product ; risk increased if mat an unknown source	on process		
			Humus	High	Yes	Decomposed plant m	atter		
			Soil	High	Yes	Risk can be reduced	if treated		
			Tree fern slabs	High	Yes	Potential to harbour for	orest pests		
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native early may be vectors of per			
74.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest	Comments	Compost Row: What is r growing medium was pro approval Vermicompost	English	COSAVE Paragua Chile,

Para. no.	Comment type	Comment				Explanation	Language	Country
				survival		or not be no n native.		Argentina,
		Baked clay pellets	Low	No	Inert			Peru, Brazi
		Pure clay	Low	No	n/a			
		Gravel, sand, silt	Low	No	Inert			
		Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)			
		Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
		Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red rinematode has been fo husks of fallen nuts)	ng		
		Paper	Low	Yes	High level of processi	ng		
		Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	e		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwi sterilized before use	se		
		Water	Low	Yes	Risk depends on sour treatment	ce or		
		Wood chips	Medium	Yes	Risk depends on part and level of processin	cle size g		
		Cork	Variable low	Yes	Risk depends on leve processing	of		
		Peat	Variable low	Yes	Peat is a natural habit nematodes, mostly ba fungal eaters; risk is k	cterial and		

	1	Comment type	Comment				Explanatior	1	Language	Country
						the origin has had no exposure (e.g. certifie				
			Sphagnum moss	Variable high	Yes	Risk depends on leve processing	of			
			Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s				
			Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	prest			
			Bio waste	High	Yes	Unprocessed waste fi animal sources relate activities				
			Compost	High	Yes	Risk <u>can be</u> reduced depending onif produ- approved the product ; risk increased if mat an unknown source	ed by an on process trial is from			
			Humus	High	Yes	Decomposed plant m	atter			
			Soil	High	Yes	Risk can be reduced	f treated			
			Tree fern slabs	High	Yes	Potential to harbour for	rest pests			
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native eart may be vectors of pe				
175.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	such as nem	perience in the region organisms hatodes, fungi, molluscs and bacteria bund in sand, gravel and silt .	English	Suriname, Jamaica, Trinidad
			Baked clay pellets	Low	No	Inert				and Tobago,
			Pure clay	Low	No	n/a				Barbados

		Comment	Comment				Explanation	Language C	ountry
10.	no.	type							
			Gravel, sand, silt	medium <mark>Low</mark>	<u>yes</u> No	Inert			
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)			
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
			Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red r nematode has been fo husks of fallen nuts)	ing		
			Paper	Low	Yes	High level of processi	ng		
			Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	e		
			Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwisterilized before use	ise		
			Water	Low	Yes	Risk depends on sour	ice or		
			Wood chips	Medium	Yes	Risk depends on part and level of processir			
			Cork	Variable low	Yes	Risk depends on leve processing	of		
			Peat	Variable low	Yes	Peat is a natural habit nematodes, mostly ba fungal eaters; risk is le the origin has had no exposure (e.g. certifie	ecterial and ower where agricultural		
			Sphagnum moss	Variable high	Yes	Risk depends on leve processing	of		

	1	Comment type	Comment				Explanation	1	Language	Country
			Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s				
			Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	brest			
			Bio waste	High	Yes	Unprocessed waste fi animal sources relate activities				
			Compost	High	Yes	Risk reduced if produced approved process; ris if material is from an usource	k increased			
			Humus	High	Yes	Decomposed plant ma	atter			
			Soil	High	Yes	Risk can be reduced i	f treated			
			Tree fern slabs	High	Yes	Potential to harbour for	rest pests			
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native eart may be vectors of pes				
476.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	growing mee	dium was produced and not its rmicompost Row: to clarify, they may	English	Ecuador, OIRSA, Belize,
			Baked clay pellets	Low	No	Inert				Costa Rica
			Pure clay	Low	No	n/a				
			Gravel, sand, silt	Low	No	Inert				
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)				

	Comment type	Comment				Explanation	Language	Country
		Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
		Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red r nematode has been f husks of fallen nuts)	ing		
		Paper	Low	Yes	High level of processi	ing		
		Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	he		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherw sterilized before use	ise		
		Water	Low	Yes	Risk depends on sou treatment	ICE OF		
		Wood chips	Medium	Yes	Risk depends on part and level of processir			
		Cork	Variable low	Yes	Risk depends on leve processing	e of		
		Peat	Variable low	Yes	Peat is a natural habi nematodes, mostly ba fungal eaters; risk is I the origin has had no exposure (e.g. certifie	acterial and ower where agricultural		
		Sphagnum moss	Variable high	Yes	Risk depends on leve processing	of		
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s			
		Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of	forest		

Comm. no.		Comment type	Comment				Explanatior	ו	Language	Country
						or fermentation				
			Bio waste	High	Yes	Unprocessed waste fi animal sources relate activities				
			Compost	High	Yes	Risk <u>can be</u> reduced depending on if produ approved the product ; risk increased if mat an unknown source	on process			
			Humus	High	Yes	Decomposed plant m	atter			
			Soil	High	Yes	Risk can be reduced	if treated			
			Tree fern slabs	High	Yes	Potential to harbour for	orest pests			
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native eart may be vectors of pe				
477.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	organisms s	perience in the Caribbean region, uch as nematodes, fungi, molluscs have been found in sand, gravel	English	Saint Kitts And Nevis
			Baked clay pellets	Low	No	Inert				
			Pure clay	Low	No	n/a				
			Gravel, sand, silt	medium Low	<u>yes</u> No	Inert				
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)				
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert				
			Coconut fibres (coir/coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red r nematode has been f	ng			

1	Comment type	Comment				Explanation	Language	Country
					husks of fallen nuts)			
		Paper	Low	Yes	High level of processi	ng		
		Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	e		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwisterilized before use	ise		
		Water	Low	Yes	Risk depends on sour	ice or		
		Wood chips	Medium	Yes	Risk depends on part and level of processir			
		Cork	Variable low	Yes	Risk depends on leve processing	of		
		Peat	Variable low	Yes	Peat is a natural habit nematodes, mostly ba fungal eaters; risk is le the origin has had no exposure (e.g. certifie	cterial and ower where agricultural		
		Sphagnum moss	Variable high	Yes	Risk depends on leve processing	of		
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s			
		Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	brest		
		Bio waste	High	Yes	Unprocessed waste fi animal sources relate activities			

	Para. no.	Comment type	Comment				Explanatior	1	Language	Country
			Compost	High	Yes	Risk reduced if produced approved process; ris if material is from an usource	k increased			
			Humus	High	Yes	Decomposed plant m	atter			
			Soil	High	Yes	Risk can be reduced i	f treated			
			Tree fern slabs	High	Yes	Potential to harbour for	orest pests			
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native eart may be vectors of per				
478.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	such as nem	perience in the region organisms hatodes, fungi, molluscs and bacteria bund in sand, gravel and silt .	English	Dominica
			Baked clay pellets	Low	No	Inert				
			Pure clay	Low	No	n/a				
			Gravel, sand, silt	medium _{Low}	<u>yes</u> No	Inert				
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)				
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert				
			Coconut fibres (coir/coco peat)	Variable low<u>high</u>	Yes	Risk depends on leve processing (e.g. red r nematode has been fo husks of fallen nuts)	ng			
			Paper	Low	Yes	High level of processi	ng			
			Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces the				

1	Comment type	Comment				Explanation	Language	Country
					probability of pest sur processing	vival after		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwi sterilized before use	se		
		Water	Low	Yes	Risk depends on sour treatment	ce or		
		Wood chips	Medium	Yes	Risk depends on part and level of processin	cle size g		
		Cork	Variable low	Yes	Risk depends on leve processing	of		
		Peat	Variable low	Yes	Peat is a natural habit nematodes, mostly ba fungal eaters; risk is lo the origin has had no exposure (e.g. certifie	cterial and wer where agricultural		
		Sphagnum moss	Variable high	Yes	Risk depends on leve processing	of		
		Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s			
		Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	prest		
		Bio waste	High	Yes	Unprocessed waste fi animal sources relate activities	om plant or d to human		
		Compost	High	Yes	Risk reduced if produced approved process; ris if material is from an usource	k increased		
		Humus	High	Yes	Decomposed plant m	atter		
		Soil	High	Yes	Risk can be reduced i	f treated		

Comm. no.	Para. no.	Comment type	Comment				Explanation	Languag	e Country
			Tree fern slabs	High	Yes	Potential to harbour for	orest pests		
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native eart may be vectors of per			
179.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	The table would have better flow if the constituents were listed according to risk rankir (from low to high). Remove n/a and replace by inert in the Comments column for Pure clay to	g English	Canada
			Baked clay pellets	Low	No	Inert	better describe this specific constituant of		
			Pure clay	Low	No		growing media. The term coco peat should be avoided and therefore deleted from column 1		
			Gravel, sand, silt	Low	No		when referring to coconut fibres because it		
			Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)	causes confusion as could be considered a mix of coir and peat). Only the term "coir" should be Repeter Coconut fibres. Add wording beside pe (fif8tr@stumn) for clarity and delete the first portion of the text related to peat under the four column as this is not needed and not always th case.	at	
			Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert	uase		
			Coconut fibres (coir/ coco peat)	Variable low	Yes	Risk depends on leve processing (e.g. red r nematode has been fo husks of fallen nuts)	ing		
			Paper	Low	Yes	High level of processi	ng		
			Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	re l		
			Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwi sterilized before use	ise		
			Water	Low	Yes	Risk depends on sour treatment	ice or		

	. Para. no.	Comment type	Comment				Explanation	Languag	e Country
			Wood chips	Medium	Yes	Risk depends on part and level of processir			
			Cork	Variable low	Yes	Risk depends on leve processing	e of		
			Peat (excluding peat soil)	Variable low	Yes	Peat is a natural habin nematodes, mostly be fungal eaters; risk is le the origin has had no exposure (e.g. certifie	e <mark>cterial and</mark> ower where agricultural		
			Sphagnum moss	Variable high	Yes	Risk depends on leve processing	e of		
			Other plant material (e.g. rice hulls/chaff, grain hulls, coffee hulls, sugarcane refuse, grape marc, cocoa pods)	Variable high	Yes	Risk is reduced if trea a clean non-infested s			
			Bark	High	Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	forest		
			Bio waste	High	Yes	Unprocessed waste fi animal sources relate activities			
			Compost	High	Yes	Risk reduced if produ approved process; ris if material is from an u source	sk increased		
			Humus	High	Yes	Decomposed plant m	atter		
			Soil	High	Yes	Risk can be reduced	if treated		
			Tree fern slabs	High	Yes	Potential to harbour for	orest pests		
			Vermicompost (vermicast plus earthworms)	High	Yes	Some non-native eart may be vectors of pes			
480.	75	Technical	Constituents of growing media	Pest risk ¹	Support pest survival	Comments	The comment "not applicable" in th "comments" of the line "pure clay" sense and needs to be precised. T "variable low" and "variable high" of	does not make The words	European Union

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	Comment type	Comment				Explanation	Language	Country
		Baked clay pellets	Low	No	Inert <u>(?)</u>	precision. The word "inert" would gain from having a definition.		
		Pure clay	Low	No	n/a <u>?</u>			
		Gravel, sand, silt	Low	No	Inert <u>(?)</u>			
		Synthetic media (e.g. glass wool, rock wool, polystyrene, floral foam, plastic particles, polyethylene, polymer stabilized starch, polyurethane, water absorbing polymers)	Low	No	Inert (but root knot an nematodes can surviv wool)			
		Vermiculite, perlite, volcanic rock, zeolite, scoria	Low	No	Inert			
		Coconut fibres (coir/coco peat)	Variable low <u>(?)</u>	Yes	Risk depends on leve processing (e.g. red r nematode has been fo husks of fallen nuts)	ng		
		Paper	Low	Yes	High level of processi	ng		
		Sawdust, wood shavings (excelsior)	Low-Medium	Yes	Size of particles and I processing reduces th probability of pest sur processing	e		
		Tissue culture medium (agar-like)	Low	Yes	Autoclaved or otherwi sterilized before use	se		
		Water	Low	Yes	Risk depends on sour treatment	ce or		
		Wood chips	Medium	Yes	Risk depends on part and level of processin			
		Cork	Variable low (?)	Yes	Risk depends on leve processing	of		
		Peat	Variable low (?)	Yes	Peat is a natural habit nematodes, mostly ba fungal eaters; risk is k	cterial and		

	Para. no.	Comment type	Comment						Explanatio	١		Language	Country
								the origin has had no exposure (e.g. certifie					
			Sphagnum moss		Variable high <u>(?)</u>		Yes	Risk depends on leve processing	of				
			Other plant material of hulls/chaff, grain hulls sugarcane refuse, gr pods)	s, coffee hulls,	Variable high <u>(?)</u>		Yes	Risk is reduced if trea a clean non-infested s					
			Bark		High		Yes	Risk depends on sour (potential to harbour f pests) and degree of or fermentation	forest				
			Bio waste		High		Yes	Unprocessed waste fi animal sources relate activities					
			Compost		High		Yes	Risk reduced if produ approved process; ris if material is from an u source	k increased				
			Humus		High		Yes	Decomposed plant m	atter				
			Soil		High		Yes	Risk can be reduced	if treated				
			Tree fern slabs		High		Yes	Potential to harbour for	orest pests				
			Vermicompost (verm earthworms)	icast plus	High		Yes	Some non-native eart may be vectors of per					
481.	75	Technical	Composants de milieux de culture	Risque phytosanita ire ¹ r	Favorise a survie de 'organis ne nuisible	Observ	ations		Pour plus d'	interprétatio	n	Français	Burundi
			Billes d'argile cuites	Faible	Non	Inerte							
			Argile pure	Faible	Non	L'écrire	en toutes	lettres <mark>s/o</mark>					
			Gravier, sable, limon	Faible	Non	Inerte							

Para. no.	Comment type	Comment				Explanation	Language	Country
		Milieu synthétique (par exemple, laine de verre, laine minérale, polystyrène, mousse florale, particules de plastique, polyéthylène, amidon stabilisé polymère, polyuréthane, polyuréthane, polymères hydrorétenteurs)	Faible	Non	Inerte (mais les nématodes à galle des rac à kyste peuvent survivre dans de la laine n			
		Vermiculite, perlite, roche volcanique, zéolite, scories	Faible	Non	Inerte			
		Fibre de coco (tourbe de coco/coir)	Variable faible	Oui	Le risque dépend du degré de transformati nématodes responsables de la maladie de retrouvés dans l'enveloppe fibreuse de noi	l'anneau rouge ont été		
		Papier	Faible	Oui	Degré de transformation élevé			
		Sciure, planure de bois (fibre de bois)	Faible– moyen	Oui	La taille des particules et le degré de trans la probabilité de survie des organismes nu transformation	ormation font baisser isibles après		
		Milieu de culture tissulaire (de type agar)	Faible	Oui	Stérilisé, notamment autoclavé, avant utilis	ation		
		Eau	Faible	Oui	Le risque est fonction de la source ou du tr	aitement		
		Copeaux de bois	Moyen	Oui	Le risque est fonction de la taille des partic transformation	ules et du degré de		
		Liège	Variable faible	Oui	Le risque est fonction du degré de transfor	ination		
		Tourbe	Variable faible	Oui	La tourbe est un habitat naturel des némat nourrissent principalement de bactéries et	odes, qui se le champignons; le		

Comm. no.	1	Comment type	Comment				Explanation		Language Country	
						risque est plus faible lorsque l'origine n'a p l'agriculture (par exemple, tourbières certifi				
			Sphaigne	Variable élevé	Oui	Le risque est fonction du degré de transfor	Ination			
			Autre matériel végétal (par exemple, balles de riz/paillette, balles de céréales, parches, résidus de canne à sucre, marc de raisin, cabosses)	Variable élevé	Oui	Le risque est moins élevé si le substrat est d'une source saine non infestée	traité ou s'il provient			
			Écorce	Élevé	Oui	Le risque est fonction de la source (potenti ravageurs forestiers) et du degré de transfe fermentation				
			Déchets biologiques	Élevé	Oui	Déchets d'origine végétale ou animale non activités humaines	transformés liés à des			
			Compost	Élevé	Oui	Le risque est moins élevé si le compost es processus approuvé; il est accru si sa prov connue				
			Humus	Élevé	Oui	Matière végétale décomposée				
			Terre	Élevé	Oui	Le risque peut être réduit avec un traiteme	int			
			Plaques de fougère arborescente	Élevé	Oui	Abri potentiel de ravageurs forestiers				
			Vermicompost (fumier de vers de terre et vers de terre)	Élevé	Oui	Certains vers de terre non autochtones per d'organismes nuisibles	uvent être vecteurs			
482.	76	Substantive	and stored in a way th	at prevents co	ontamination		this information should b the title of the Annex, as left in a footnote. Also A similar significance unde table	nnex 1b has a note of	English	Australia
483.	76	Substantive				g media <u>was not previously used for</u> stored in a way that prevents contamination.	Simpler, clearer stateme	ent.	English	United States of

Comm. no.		Comment type	Comment	Explanation	Language	Country
						America
484.	76	Technical	^{Footnote 1} For growing media not previously used for planting and which have been handled and stored in a way that prevents contamination.	Added before the table (very important note)	English	EPPO, Norway, Algeria
485.	76	Technical	^{Footnote 1} For growing media not previously used for planting and which have been handled and stored in a way that prevents contamination. This Annex considers the risk posed by different constituents of growing media, but not in as sociation with plants for planting. For pest risk assessment, the pest risk posed by growing media in association with plants for planting should be assessed.	We propose to add this new paragraph after paragraph 76 to clarify that both growing media and plants for planting should be evaluated together when assessing pest risk	English	Uruguay
486.	76	Technical	^{rootnote 1} For growing media not previously used for planting and which have been handled and stored in a way that prevents contamination. <u>This Annex considers the risk posed by different constituents of growing media, but not in as</u> <u>sociation with plants for planting. For pest risk assessment, the pest risk posed by growing</u> <u>media in association with plants for planting should be assessed.</u>	We propose to add this new paragraph after paragraph 76 to clarify that both growing media and plants for planting should be evaluated together when assessing pest risk	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazi
487.	76	Technical	 Footnote ¹ For growing media not previously used for planting and which have been handled and stored in a way that prevents contamination. This Appendix considers the risk posed by different constituents of growing media, but not in association with plants for planting. For pest risk assessment, the pest risk posed by growing media in association with plants for planting should be assessed. 		English	Ecuador, OIRSA, Belize, Costa Rica
488.	76	Technical	^{Footnote 1} For growing media not previously used for planting and which have been handled and stored in a way that prevents contamination (e.g. freedom from soil).	Add an example of contamination to provide clarity.	English	Canada
489.	76	Technical	Feetnete 1 For growing media not previously used for planting and which have been handled and stored in a way that prevents contamination.	Added before the table (very important note)	English	European Union
490.	77	Editorial	ANNEX 1b: <u>Combinations of </u> Ggrowing media <u>and other measures associated with</u> plants that result in <u>may be considered low negligible</u> pest risk	For consistency with [39] and [79], and added clarity (it is not the growing media in itself that results in low risk).	English	EPPO, Norway, Algeria

	1	1	Comment	Explanation	Language	Country
10.	10.	type				
491.	77	Editorial	ANNEX 1b: Examples of combinations of Ggrowing media with other measures associated with plants that which result in may be considered low negligible pest risk of the growing medium associated with the plant	For consistency with [39] and [79], and added clarity (it is not the growing media in itself that results in low risk).	English	European Union
192.	77	Substantive	APPENDIX ANNEX 1b: Growing media associated with plants that may be considered low pest risk	This Annex should be made into Appendix	English	Thailand, Malaysia
493.	77	Substantive	APPENDIXANNEX 1b: Growing media associated with plants that may be considered low pest risk	This Annex should be made into Appendix	English	Korea, Republic of
194.	77	Substantive	ANNEX 1b: Growing media associated with plants that may be considered low pest risk	Suggest deleting Annexes 1a and 1b (first three columns). 1b is outside the scope of the standard, and doesn't add information to the standard. Redundant because information in 1b is already covered in 1a. See US proposed new table in paragraph 75.	English	United States of America
195.	77	Substantive	ANNEX <u>APPENDIX</u> 1b: Growing media associated with plants that may be considered low pest risk	This is the regional comment made by the 14th APPPC Regional Workshop on Review of draft ISPMs.	English	Japan
1 96.	77	Substantive	ANNEX 1b: Growing media associated with plants that may be considered low pest risk	Annex 1b and the associated tables should be deleted from the standard as they are not all inclusive. Many of the measures mentioned in this annex may be related to systems approaches, which have now been addressed under Section 5. The text on treatment of water has been moved to now section 5.2 and the text on prevention of colonization by the relevant pest has been moved to a new Section 5.1. The rest of the information covered under Annex 1b is already captured elsewhere in the draft text.		Canada
197.	77	Substantive	ANNEX 1b: Growing media associated with plants that may be considered low pest risk	The Annex should be made into Appendix.	English	Nepal
198.	77	Substantive	ANNEXAPPENDIX 1b: Growing media associated with plants that may be considered low pest risk	This Annex should be made into Appendix	English	Viet Nam
199.	78	Substantive	Note: These tables describe only the pest risk associated with the growing medium, not with the plants.	See US comment in paragraph 77	English	United States of America

Comm.	Para.	Comment	Comment	Explanation	Language	Country
no.	no.	type				
500.	78	Substantive	Note: These tables describe only the pest risk associated with the growing medium, not with the plants.	Delete the note above Table 1 and 2 as both tables are being deleted with the deletion of annex 1b - see comment in paragraph 77.	English	Canada
501.	78	Technical	Note: These tables describe only the pest risk associated with the growing medium, not with the plants. Examples of combinations of growing media with other measures which result in negligible pest risk of the growing medium associated with the plant. These	this is a proposed clarification of the note and of what the table actually presents.	English	EPPO, Norway, Algeria
502.	78	Technical	combinations do not affect potential pest risk associated with the plants themselves. Note: These tables describe only the pest risk associated with the growing medium, not with the plants.	This paragraph is inconsistent with Title of Annex	English	Uruguay
503.	78	Technical	Note: These tables describe only the pest risk associated with the growing medium, not with the plants.	This paragraph is inconsistent with Title of Annex 1b	English	COSAVE, Paraguay, Chile, Argentina, Peru, Brazil
504.	78	Technical	Note: Thiese tables describes only the pest risk associated with the growing medium, not with the plants.	See comment on para 82.	English	European Union
505.	79	Substantive	Table 1: Combinations of growing medium and other measures that result in negligible are effective for managing pest risk	See US comment on paragraph 77. If this table is not deleted, suggest this rewording.	English	United States of America
506.	79	Substantive	Table 1: Combinations of growing medium and other measures that result in negligible post risk	Delete Table 1 in line with deletion of annex 1b as per comment in paragraph 77.	English	Canada
507.	79	Technical	Table 1: Combinations of growing medium and other measures that result in negligible pest risk	The title of the table is now given in the heading for annex 1b	English	EPPO, Norway, Algeria
508.	79	Technical	Table 1: Combinations of growing medium and other measures that result in negligible pest risk	The title of the table is now given in the heading for annex 1b	English	European Union
509.	80	Editorial	Growing Water/nutri Other measures Examples	Usual term	English	EPPO

Comment type	Comment				Explanatior	1	Language	Country
	medium							
	Water	Water or water-based nutrient solution	Sterilized, treated or filtered water may be required	Plants rooted in water				
	Tissue culture medium	N/A (incorporate d in sterile medium)	Maintained in aseptic conditions	Tissue cultured plants transported in closed cont	aners			
	Inert material that is not capable of supportin g pest growth (e.g. perlite)	Sterilized water-based nutrient solution	Maintained in conditions to prevent pest <u>infestation</u> col onization	Plants for hydroponic cultivation where the abser can be verified	ice of pests			
	Growing medium that has been sterilized (e.g. by heat to a specified temperat ure for a specified duration)	Pest free (sterilized, treated or filtered) water supply	Maintained in conditions to prevent pest infestation col onization	Plants grown from seed in modules under protec conditions	te			
no.	no. type	mediumImage: Second seco	Image: specified beenImage: specified been <td< td=""><td>mediumWaterWaterWaterWaterWaterWaterWaterWater-based nutrient solutionTissue culture mediumN/A (incorporate d in sterile medium)Inert material that is not capable of g pest growth (e.g. perlite)Sterilized of supportin g pest growth (e.g. perlite)Growing medium that has been sterilized (e.g. by heat to a specifiedPest free (sterilized, treated or iltered) water supplyMaintained in conditionsMaintained in conditionsMaintained in conditionsMaintained in conditions to prevent pest infestation cel onizationGrowing medium that has been specifiedPest free (sterilized, treated or iltered) water supplyMaintained in conditions to prevent pest infestation cel onization</td><td>medium Sterilized, treated or filtered water may be required Plants rooted in water Water Water or water-based nutrient solution Sterilized, treated or filtered water may be required Plants rooted in water Tissue culture medium N/A (incorporate di n sterile medium) Maintained in aseptic conditions Tissue cultured plants transported in closed contered in sterile medium) Inert material that is not capable of pest greet growth (e.g. perite) Sterilized (cag. perite) Maintained in conditions to infestation eer orization eer orization or orization for orization or orization or orization or orization for the storilized (e.g. by treated or filtered) water supply Maintained in conditions to prevent pest infestation eer orization error oter orization error orization error orization error</td><td>Medium Medium Sterilized, treated or filtered water solution Plants rooted in water medium Plants rooted in water Tissue culture medium N/A (incorporate d in sterile medium) Maintained in aseptic conditions Tissue cultured plants transported in closed conta ners Image: solution distribution distribution distribution distribution distribution Inert material that is not capable of pest growth (e.g. perile) Sterilized, treated or filtered water or medium) Maintained in conditions to prevent pest infestation col enization col enization distribution distreaction distribution distreaction distribution distreac</td><td>Image: Note of the second s</td><td>Image: Note of the second s</td></td<>	mediumWaterWaterWaterWaterWaterWaterWaterWater-based nutrient solutionTissue culture mediumN/A (incorporate d in sterile medium)Inert material that is not capable of g pest growth (e.g. perlite)Sterilized of supportin g pest growth (e.g. perlite)Growing medium that has been sterilized (e.g. by heat to a specifiedPest free (sterilized, treated or iltered) water supplyMaintained in conditionsMaintained in conditionsMaintained in conditionsMaintained in conditions to prevent pest infestation cel onizationGrowing medium that has been specifiedPest free (sterilized, treated or iltered) water supplyMaintained in conditions to prevent pest infestation cel onization	medium Sterilized, treated or filtered water may be required Plants rooted in water Water Water or water-based nutrient solution Sterilized, treated or filtered water may be required Plants rooted in water Tissue culture medium N/A (incorporate di n sterile medium) Maintained in aseptic conditions Tissue cultured plants transported in closed contered in sterile medium) Inert material that is not capable of pest greet growth (e.g. perite) Sterilized (cag. perite) Maintained in conditions to infestation eer orization eer orization or orization for orization or orization or orization or orization for the storilized (e.g. by treated or filtered) water supply Maintained in conditions to prevent pest infestation eer orization error oter orization error orization error orization error	Medium Medium Sterilized, treated or filtered water solution Plants rooted in water medium Plants rooted in water Tissue culture medium N/A (incorporate d in sterile medium) Maintained in aseptic conditions Tissue cultured plants transported in closed conta ners Image: solution distribution distribution distribution distribution distribution Inert material that is not capable of pest growth (e.g. perile) Sterilized, treated or filtered water or medium) Maintained in conditions to prevent pest infestation col enization col enization distribution distreaction distribution distreaction distribution distreac	Image: Note of the second s	Image: Note of the second s

	Para. no.	Comment type	Comment			Explanation Language Countr				
510.	80	Editorial	Milieu de culture	Eau/nutriment s	Autres mesures	SO:	écrire en toutes lett Exemples	res	Français	Gabon, Congo, DR*
			Eau	Eau ou solution aqueuse nutritive	Il peut être nécessaire de stériliser, de traiter ou de filtrer l'e	au	Végétaux enracinés dans l'eau			
			Milieu de culture tissulair e	SO (incorporés dans un milieu stérile)	Maintien dans des conditions aseptiques		Végétaux en culture tissulaire transportés dans des conteneurs fermés			
			Matière inerte impropr e à la croissa nce d'organi smes nuisible s (par exempl e, la perlite)	Solution aqueuse nutritive stérilisée	Maintien dans des conditions propres à prévenir une colonisation par des organismes nuisibles		Végétaux destinés à la culture hydroponique, où l'absence d'organismes nuisibles peut être vérifiée			
			Milieu de culture stérilisé (par exempl e,	Approvisionnem ent en eau exempt d'organismes nuisibles (stérilisé, traité ou filtré)	Maintien dans des conditions propres à prévenir une colonisation par des organismes nuisibles		Végétaux cultivés à partir de semences dans des modules, dans un environnement			

		Comment type	Comment				Expla	ination	Language	Country
			à une tempér ature spécifiq ue pendant une durée détermi née)							
511.	80	Editorial	Growing medium	Water/nutrients	Other measures	Examples	Usual	term	English	European Union
			Water	Water or water- based nutrient solution	Sterilized, treated or filtered water may be required	Plants rooted in water				
			Tissue culture medium	(incorporated in	Maintained in aseptic conditions	Tissue cultured plants transported in closed	contair	ners		
			Inert material that is not capable of supportin g pest growth (e.g. perlite)	Sterilized water- based nutrient solution	Maintained in conditions to prevent pest <u>infestation</u> colon ization	Plants for hydroponic cultivation where the a pests can be verified				
			Growing medium		Maintained in conditions to	Plants grown from seed in modules under pr conditions	otecte	d		

		Comment type	Comment				Explanation	Language	Country
			been	treated or filtered) water supply	prevent pest infestation colon ization				
512.	80	Editorial	Growing medium	Water/nutrients	Other measures	Examples	Usual term	English	Algeria
			Water	Water or water- based nutrient solution	Sterilized, treated or filtered water may be required	Plants rooted in water			
			Tissue culture medium	N/A (incorporated in sterile medium)	Maintained in aseptic conditions	Tissue cultured plants transported in closed	containers		
			Inert material that is not capable of supportin g pest growth (e.g. perlite)	Sterilized water- based nutrient solution	Maintained in conditions to prevent pest <u>infestation</u> colon ization	Plants for hydroponic cultivation where the al pests can be verified	bsence of		
			Growing	Pest free	Maintained in	Plants grown from seed in modules under pr	ptected		

		Comment type	Comment				Explanatio	n	Language	Country
			medium that has been sterilized (e.g. by heat to a specified temperat ure for a specified duration)	(sterilized, treated or filtered) water supply	conditions to prevent pest <u>infestation</u> colon ization	conditions				
513.	80	Substantive	Growin g mediu m	Water/nutrien ts	Other measures	Examples	See US co	nment on paragraph 77	English	United States of America
			Water	Water or water-based nutrient solution	Sterilized, treated or filtered water may be required	Plants rooted in water				
			Tissue culture medium	N/A (incorporated in sterile medium)	Maintained in aseptic conditions	Tissue cultured plants transported in closed containers				
			Inert material that is not capable of supporti	Sterilized water-based nutrient solution	Maintained in conditions to prevent pest colonization	Plants for hydroponic cultivation where the a of pests can be verified	ibsence			

		Comment type	Comment				Explanatio	n	Language	Country
			growth (e.g. perlite)							
			Growin g medium that has been sterilize d (e.g. by heat to a specifie d temper ature for a specifie d duration)	Pest free (sterilized, treated or filtered) water supply	Maintained in conditions to prevent pest colonization	Plants grown from seed in modules under p conditions	rotected			
514.	80	Substantive	Growing medium	Water/nutrients	Other measures	Examples		contained in the table as per pararaph 77.	English	Canada
			Water	Water or water- based nutrient solution	Sterilized, treated or filtered water may be required	Plants rooted in water				
			Tissue culture medium	N/A (incorporated in sterile medium)	Maintained in aseptic conditions	Tissue cultured plants transported in closed	ontainers			
			Inert material	Sterilized water- based nutrient	Maintained in conditions to	Plants for hydroponic cultivation where the a pests can be verified	sence of			

	1	Comment type	Comment				Explanatio	n	Language	Country
			that is not capable of supportin g post growth (e.g. porlito)	solution	prevent pest colonization					
			Growing medium that has been sterilized (e.g. by heat to a specified temperat ure for a specified duration)	Pest free (sterilized, treated or filtered) water supply	Maintained in conditions to prevent pest colonization	Plants grown from seed in modules under pr conditions	ytected			
515.	80	Technical	Growing medium	Water/nutrients	Other M m easures	Examples	The word "c	ther" does not make sense here		EPPO, Algeria
			Water	Water or water- based nutrient solution	Sterilized, treated or filtered water may be required	Plants rooted in water				
			Tissue culture medium	N/A (incorporated in sterile medium)	Maintained in aseptic conditions	Tissue cultured plants transported in closed of	containers			
			Inert material that is not capable	Sterilized water- based nutrient solution	Maintained in conditions to prevent pest colonization	Plants for hydroponic cultivation where the a pests can be verified	bsence of			

		Comment type	Comment				Explanation		Language	Country
			of supportin g pest growth (e.g. perlite)							
			(e.g. by heat to a	Pest free (sterilized, treated or filtered) water supply	Maintained in conditions to prevent pest colonization	Plants grown from seed in modules under proconditions	ptected			
516.	80	Technical	Growing	Water/nutrients	Other M m easures	Examples	The word "c	ther" does not make sense here	English	European Union
			Water	Water or water- based nutrient solution	Sterilized, treated or filtered water may be required	Plants rooted in water				
			culture	N/A (incorporated in sterile medium)	Maintained in aseptic conditions	Tissue cultured plants transported in closed	containers			
			not	Sterilized water- based nutrient solution	Maintained in conditions to prevent pest colonization	Plants for hydroponic cultivation where the al pests can be verified	osence of			

		Comment type	Comment				Exp	planation	Language	Country
			g pest growth (e.g. perlite)							
			Growing medium that has been sterilized (e.g. by heat to a specified temperat ure for a specified duration)	Pest free (sterilized, treated or filtered) water supply	Maintained in conditions to prevent pest colonization	Plants grown from seed in modules under pr conditions	rotec	sted		
517.	80	Technical	Milieu de culture	Eau/nutriments	Autres mesures		Evit	ter autres interprétations Exemples	Français	Burundi
			Eau	Eau ou solution aqueuse nutritive	Il peut être néces	saire de stériliser, de traiter ou de filtrer l'eau	1	Végétaux enracinés dans l'eau		
			Milieu de culture tissulaire	SO (incorporés dans un milieu stérile) . SO, l'écrire en toutes lettres	Maintien dans de	s conditions aseptiques		Végétaux en culture tissulaire transportés dans des conteneurs fermés		
			Matière inerte impropre à la croissanc e d'organis mes nuisibles	Solution aqueuse nutritive stérilisée	Maintien dans de par des organism	s conditions propres à prévenir une colonisat les nuisibles	tion	Végétaux destinés à la culture hydroponique, où l'absence d'organismes nuisibles peut être vérifiée		

Comm.	Para.	Comment	omment Comment Explanation						
no.	no.	type		Explanation Language Country					
			(par exemple, la perlite)						
			Milieu de culture stérilisé (par exemple, chauffé à une températu re spécifique pendant une durée déterminé e)	lonisation Végétaux cultivés à partir de semences dans des modules, dans un environnement protégé					
518.	81	Substantive	Table 2: Combinations of growing medium and other measures that may result risk for a specific pest	table combined with the first table of annex 1B: the table did not give any additional precise information or guidance					
519.	81	Substantive	Table 2: Combinations of growing medium and other measures that may result risk for a specific pest	in low See US comment on paragraph 75 English United States of America					
520.	81	Substantive	Table 2: Combinations of growing medium and other measures that may result risk for a specific pest	in low Table combined with the first table of annex 1B: English the table did not give any additional precise information or guidance.					
521.	81	Technical	Table 2: Combinations of growing medium and other measures that may result risk for a specific pest	in low Delete Table 2 as per comment in paragraph 77. English Canada					

Comm. no.	1	Comment type	Comment				Explanation			
522.	82	Substantive	Table delet	ed			See 81		English	EPPO, Norway, Algeria
523.	82	Substantive	Growin g mediu m	Water/nutri ents	Other measures	Examples	See US co	nment on paragraph 75	English	United States of America
			Treated growing medium (e.g. fumigat ed or drenche d with an appropr iate chemic al treatme nt)	Clean water supply or if pest is likely to be transmitted in water, appropriatel y sterilized, treated or filtered water supply	Prevention of colonization by the relevant pest (e.g. pest free area, pest free place of production, protected conditions, prevention of transmission by wind, grown on benches separated from contact with soil)	Plants in pots in growing medium treated with insecticide to kill a specific insect pest and gr protected conditions				
524.	82	Substantive		Water/nutrien ts	Other measures	Examples		contained in the table. Please see paragraph 77.	English	Canada
			Treated growing medium (e.g. fumigate d.or	Clean water supply or if pest is likely to be transmitted in water, appropriately	Prevention of colonization by the relevant pest (e.g. pest free area, pest free place of	Plants in pots in growing medium treated with insecticide to kill a specific insect pest and gro protected conditions	an w n in			

		Comment type	Comment	Explanation	Language	Country
			drenched with an appropria te chemical) sterilized, treated or filtered water supply production, protected conditions, prevention of transmission by wind, grown on benches separated from contact with soil)			
525.	82	Substantive	Table deleted	See 81	English	European Union
526.	85		APPENDIX 24: Types of plants for planting in international trade and their commonly used growing media	Renumbering. Change to APPENDIX 2	English	Thailand
527.	85		APPENDIX 1: Types of plants for planting in international trade and their commonly used growing media	Renumbering. Change to APPENDIX 2	English	Malaysia
528.	85		APPENDIX 1: Types of plants for planting in international trade and their commonly used growing media	Renumbering. Change to APPENDIX 2	English	Korea, Republic of
529.	85		APPENDIX 42: Types of plants for planting in international trade and their commonly used growing media	Renumbering. Change to APPENDIX 2	English	Viet Nam
530.	85		APPENDIX 1: <u>Examples</u> Types of plants for planting in international trade and their commonly <u>associated</u> growing media	Clearer title The table title suggests that media and soil "commonly used in international trade" are acceptable. Permitting such materials may explain the much higher incidence of non-native forest pathogens established in other regions of the world.	English	United States of America
531.	86	Substantive	Plant type Growing media Comments	The title of table is "Type of plants for planting in international trade and their commonly used growing media". So, the first row is not	English	Thailand

	1	Comment	Comment			Explanatio	n	Language	Country
no.	no.	type	Unrooted			necessary t	ecause it's not use growing media.		
			cuttings	None					
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-ba solutions, with or without synthetic growing media.	sed nutrient			
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ac growing media. They may be shipped in sealed aseptic containe agar.				
			Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often shipp association with tree fern slabs, bark, wood, sphagnum moss, vo cinder, rock and so forth. These materials are generally intendec support and ornamentation rather than being true growing media	lcanic for			
			Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in s growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	The roots uring the			
			Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and			
			Potted greenhouse plants	Various (including synthetic media,	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses			

1	Comment type	Comment			Explanatio	n	Language	Country
			vermiculite , perlite, peat, coco peat)					
		Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media				
		Liners, whips	Various (including peat, vermiculite) or soil as a contamina nt	These young plants are generally rooted in soil or in soil-free gro media in containers or trays.	wing			
		Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) or none (<i>Tulipa</i>)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulbs lilies, are very difficult to ship completely free from soil.	in fields			
		Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown tr is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free fror and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be n all soil the type of			
		Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. The plant roots are typically very difficult to wash free from soil. The may be transplanted to soil-free growing media and grown in gree using integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses			

	1	Comment type	Comment			Explanation	1	Language	Country
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.				
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
532.	86	Substantive	Plant type	Growing media	Comments	need to high	ke ex-	English	Australia
			Unrooted cuttings	None	- <u>Unrooted cuttings are often packed in media to keep them in go condition</u>	<u>od</u>			
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-ba solutions, with or without synthetic growing media.	sed nutrient			
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ac growing media. They may be shipped in sealed aseptic containe agar.				
			Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vo cinder, rock and so forth. These materials are generally intended support and ornamentation rather than being true growing media	lcanic for			
			Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum	Rooted herbaceous cuttings are generally rooted and moved in s growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	The roots uring the			

1	Comment type	Comment	mment E			Explanation		Country
			moss)					
		Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and			
		Potted greenhouse plants	Various (including synthetic media, vermiculite , perlite, peat, coco peat)	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses			
		Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media				
		Liners, whips	Various (including peat, vermiculite) or soil as a contamina nt	These young plants are generally rooted in soil or in soil-free gro media in containers or trays.	wing			
		Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) or none (<i>Tulipa</i>)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulbs lilies, are very difficult to ship completely free from soil.	in fields			

		Comment type	Comment			Explanation	1	Language	Country
			Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown tr is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free from and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be n all soil he type of			
			Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. may be transplanted to soil-free growing media and grown in greusing integrated risk mitigation measures in an effort to minimizer risks associated with them.	enhouses			
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.				
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
533.	86	Technical	Plant type	Growing media	Comments	other ISPMs	mentionned in annex 1A and has focusing speciically on it. The other s are added to group the plants and	English	EPPO
			Unrooted cuttings, so me bulbs (Tu lipa) and so me bare root nursery stoc k	None			al that are mooved without growing		
				Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-ba solutions, with or without synthetic growing media.			
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ag growing media. They may be shipped in sealed aseptic containe agar.				
			Epiphytic plants	Tree fern slabs, bark, wood,	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vo cinder, rock and so forth. These materials are generally intended support and ornamentation rather than being true growing media	lcanic for			

Para. no.	Comment type	Comment			Explanatior	1	Language	Country
			sphagnum moss, volcanic cinder, rock					
		Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in s growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	The roots uring the			
		Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and			
		Potted greenhouse plants	Various (including synthetic media, vermiculite , perlite, peat, coco peat)	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses			
		Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media	rsery stock,			
		Liners, whips	Various (including peat, vermiculite	These young plants are generally rooted in soil or in soil-free gromedia in containers or trays.	wing			

Comm. no.		Comment type	Comment			Explanatio	n	Language	Country
) or soil as a contamina nt					
			Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) ornone (Tulipa)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulbs lilies, are very difficult to ship completely free from soil.	in fields			
			Bare root nursery stock	Soil , none	Bare root is a technique of arboriculture whereby a field grown tr is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free from and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be n all soil the type of			
			Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. The plant roots are typically very difficult to wash free from soil. The may be transplanted to soil-free growing media and grown in gree using integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses			
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap―. This mate includes a large volume of soil.				
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
534.	86	Technical	Plant type	Growing media	Comments	This type of substrate	bulbs can be shipped in inert	English	Uruguay
			Unrooted cuttings	None					
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-bas solutions, with or without synthetic growing media.	sed nutrient			

Comm. no.	1	Comment type	Comment			Explanation	1	Language	Country
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile as growing media. They may be shipped in sealed aseptic containe agar.				
			Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vo cinder, rock and so forth. These materials are generally intended support and ornamentation rather than being true growing media	lcanic for			
			Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very shore	The roots juring the			
			Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and			
			Potted greenhouse plants	Various (including synthetic media, vermiculite , perlite, peat, coco peat)	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses			
			Ornamental and flowering houseplants	Various (including synthetic media,	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media				

Comm.	mm. Para. Comment		Comment			Explanation		Language Country	
no.	no.	type							
				vermiculite , perlite, coco peat)					
			Liners, whips		These young plants are generally rooted in soil or in soil-free gromedia in containers or trays.	wing			
			Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) or none (<i>Tulipa</i>)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulbs lilies, are very difficult to ship completely free from soil.	in fields			
			Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown tr is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free from and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	< may be n all soil the type of			
			Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. The plant roots are typically very difficult to wash free from soil. The may be transplanted to soil-free growing media and grown in gree using integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses			
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.				
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
535.	86	Technical	Plant type	Growing media	Comments	This type of substrate	bulbs can be shipped in inert	English	COSAVE, Paraguay,
			Unrooted	None					Chile, Argentina,

Comm. no.	. Para. no.	Comment type	Comment		E	xplanation	L	.anguage	Country
			cuttings						Peru, Brazil
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-base solutions, with or without synthetic growing media.	ed nutrient			
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile acta growing media. They may be shipped in sealed aseptic containers agar.				
			Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often shippe association with tree fern slabs, bark, wood, sphagnum moss, vclc cinder, rock and so forth. These materials are generally intendec for support and ornamentation rather than being true growing media.	canic			
			Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in so growing media that may be contained in peat-pots or coco-pots. The are tender and the growing media cannot be removed without in un plants. The growing cycle for these plants is generally very short.	he roots			
			Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	nedia and			
			Potted greenhouse plants	Various (including synthetic media,	Potted greenhouse plants are generally grown exclusively in grear under controlled conditions and in soil-free growing media.	nhouses			

		Comment	Comment			Explanatio	n	Language	Country
no.	no.	type							
				vermiculite , perlite, peat, coco peat)					
			Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media				
			Liners, whips		These young plants are generally rooted in soil or in soil-free gromedia in containers or trays.	wing			
			Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) or none (<i>Tulipa</i>)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and growr but shipped dormant and free from growing media. Certain bulb lilies, are very difficult to ship completely free from soil.	in fields			
			Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown to is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free fro and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be n all soil the type of			
			Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. may be transplanted to soil-free growing media and grown in greusing integrated risk mitigation measures in an effort to minimizer risks associated with them.	enhouses			
			Trees and	Soil	Older trees and shrubs, including specimen trees, are often mov	ed in the			

	Para. no.	Comment type	Comment			Explanation	1	Language	Country
			shrubs with soil		nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.	udes a			
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
536.	86	Technical	Plant type	Growing media	Comments		bulbs are not generally cultivated in an be shiped in an inert substrate	English	Ecuador, OIRSA,
			Unrooted cuttings	None					Belize, Costa Rica
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-bases solutions, with or without synthetic growing media.	sed nutrient			
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ag growing media. They may be shipped in sealed aseptic containe agar.				
			Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vo cinder, rock and so forth. These materials are generally intended support and ornamentation rather than being true growing media	Icanic for			
			Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in s growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	The roots uring the			
			Plants grown	Various	Annuals and biennials are generally grown from seed in growing	media and			

	Comment type	Comment			Explanation	n	Language	Country
		from seed	(including peat, vermiculite , perlite)	moved as rooted in growing media.				
		Potted greenhouse plants	Various (including synthetic media, vermiculite , perlite, peat, coco peat)	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	eenhouses			
		Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media	ursery stock, a.			
		Liners, whips	Various (including peat, vermiculite) or soil as a contamina nt	These young plants are generally rooted in soil or in soil-free gromedia in containers or trays.	cwing			
		Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) or none (<i>Tulipa</i>)	Bulbs, tubers (including corms and rhizomes), tuberous roots ar herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulb lilies, are very difficult to ship completely free from soil.	n in fields			
		Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown t is dug up in order to put it into a dormant state. The nursery stor shaken to remove some of the soil, or it may be washed free fro	ck may be			

		Comment type	Comment			Explanation	Language	Country
					and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root			
			Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. The plant roots are typically very difficult to wash free from soil. The may be transplanted to soil-free growing media and grown in gree using integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses		
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.			
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway		
537.	86	Technical	Plant type	Growing media	Comments	Unrooted cuttings: comment should highlight that unrooted cuttings are often packed in media to keep them in good condition Rooted herbacious		Australia
			Unrooted cuttings	None	Often packed in growing media to keep in good condition.	cuttings: delete sentence or explain significance of short growing cycle. Potted greenhouse		
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-based solutions, with or without synthetic growing media.	plants: delete as it is uncorrect to claim that greenhouse plants are generally grown in soil- free media sed nutrient		
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ag growing media. They may be shipped in sealed aseptic containe agar.			
			Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vo cinder, rock and so forth. These materials are generally intended support and ornamentation rather than being true growing media	lcanic for		
			Rooted	Various	Rooted herbaceous cuttings are generally rooted and moved in s	soil-free		

Comm. F		Comment	Comment			Explanation	Language	Country
no. n	10.	type						
			herbaceous cuttings	(including peat, coco peat, synthetic media, sphagnum moss)	growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	uring the		
			Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and		
			Potted greenhouse plants	Various (including synthetic media, vermiculite , perlite, peat, coco peat)	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses		
			Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media			
			Liners, whips	Various (including peat, vermiculite) or soil as a contamina nt	These young plants are generally rooted in soil or in soil-free gro media in containers or trays.	wing		
			Dormant bulbs and tubers,	Soil, peat (<i>Lilium</i>) or none	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulbs	in fields		

	1	Comment type	Comment			Explanatio	n	Language	Country
			tuberous roots and herbaceous perennial roots	(Tulipa)	lilies, are very difficult to ship completely free from soil.				
			Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown tr is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free fror and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be n all soil the type of			
			Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. The plant roots are typically very difficult to wash free from soil. The may be transplanted to soil-free growing media and grown in gree using integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses			
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.				
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
538.	86	Technical	Plant type	Growing media		these are th	n or Tulipa as this would imply that e only types of bulbs shipped. to exclude examples. Delete the last	English	Canada
			Unrooted cuttings	None		sentence (C statement is	ertain bulbs, from soil) as this not appropriate as it is related to		
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-bases solutions, with or without synthetic growing media.		ather than actual risk.		
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ag growing media. They may be shipped in sealed aseptic containe agar.				
			Epiphytic plants	Tree fern slabs,	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vo				

		Comment	Comment			Explanation	Language	Country
no.	no.	type		bark, wood, sphagnum moss, volcanic cinder, rock	cinder, rock and so forth. These materials are generally intended support and ornamentation rather than being true growing media			
			Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in a growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	The roots uring the		
			Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and		
			Potted greenhouse plants	Various (including synthetic media, vermiculite , perlite, peat, coco peat)	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses		
			Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media			
			Liners, whips	Various (including peat,	These young plants are generally rooted in soil or in soil-free gromedia in containers or trays.	wing		

	1	Comment type	Comment			Explanatio	n	Language	Country
				vermiculite) or soil as a contamina nt					
			Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat <u>or none(Lili</u> um) or none (Tulipa)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulbs lilies, are very difficult to ship completely free from soil.	in fields			
			Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown tr is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free from and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be n all soil the type of			
			Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. The plant roots are typically very difficult to wash free from soil. The may be transplanted to soil-free growing media and grown in gree using integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses			
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.				
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
539.	86	Technical	Plant type	Growing media	Comments	other ISPMs	mentioned in annex 1A and has focusing specifically on it. The other s are added to group the plants and	English	European Union
			Unrooted cuttings, so me bulbs (Tu lipa) and so me bare root nursery stoc	None			al that are moved without growing		

	1	Comment	Comment			Explanatior	1	Language	Country
no.	no.	type							
			<u>k</u>						
			Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-base solutions, with or without synthetic growing media.	sed nutrient			
			Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ag growing media. They may be shipped in sealed aseptic containe agar.				
			Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vc cinder, rock and so forth. These materials are generally intendec support and ornamentation rather than being true growing media	lcanic for			
			Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in s growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	The roots uring the			
			Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and			
			Potted greenhouse plants	Various (including synthetic media, vermiculite	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses			

	Comment type	nt Comment E		Explanation		Language	Country	
			, perlite, peat, coco peat)					
		Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media				
		Liners, whips	Various (including peat, vermiculite) or soil as a contamina nt	These young plants are generally rooted in soil or in soil-free grc media in containers or trays.	wing			
		Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) ornone (<i>Tulipa</i>)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and grown but shipped dormant and free from growing media. Certain bulbs lilies, are very difficult to ship completely free from soil.	in fields			
		Bare root nursery stock	Soil , none	Bare root is a technique of arboriculture whereby a field grown tr is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free fror and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be n all soil the type of			
		Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. The plant roots are typically very difficult to wash free from soil. The may be transplanted to soil-free growing media and grown in greusing integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses			
		Trees and	Soil	Older trees and shrubs, including specimen trees, are often mov	ed in the			

Comm. no.	. Para. no.	Comment type	Comment			Explanation	n	Languag	e Country
			shrubs with soil		nursery trade as dug trees or "ball and burlapâ€∙ . This mate includes a large volume of soil.	rial			
			Turf or grass sod	Soil	Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
540.	86	Translation	Tipo de planta	Medio de crecimient o	Observaciones	Término má	is usado en español	Español	El Salvado
			Esquejes sin enraizar	Ninguno					
			Plantas enraizadas en agua o en una solución acuosa de nutrientes	Agua	Algunas plantas pueden cultivarse, a partir de esquejes, en agua soluciones acuosas de nutrientes, con o sin medios de crecimier sintéticos.			Español	
		Plantas cultivadas en medio de cultivo tisularEstéril, de tipo agarLa producción de plantas cultivadas en medio de cultivo tisular e stá asociada con medios de crecimiento estériles de tipo agar. Pueden transportarse en contenedores asépticos sellados o <i>ex agar</i> .							
			Plantas epífitas	Losas de helechos arborescen tes, corteza, madera, musgo esfagnáce o, ceniza volcánica, roca	Las plantas epífitas, como las bromelias y las orquídeas, se tran menudo asociadas con losas de helechos arborescentes, cortez musgo esfagnáceo, ceniza volcánica, roca, etc. Estos materiales verdaderos medios de crecimiento, sino que se utilizan generaln fines de soporte y ornamentación.	a, madera, i no son	a,		
			Esquejes herbáceos enraizados	Diversos medios (en particular: turba, turba de coco,	Los esquejes herbáceos enraizados generalmente se enraízan y transportan en medios de crecimiento libres de suelo; como reci pueden utilizarse macetas de turba o de coco. Las raíces son de los medios de crecimiento no pueden eliminarse sin dañar a las ciclo de crecimiento de estas plantas es generalmente muy corto	piente licadas y plantas. El			

1	Comment type	Comment			Explanatio	n	Language	Country
			medios sintéticos, musgo esfagnáce o)					
		Plantas cultivadas a partir de semillas	Diversos medios (en particular: turba, vermiculita y perlita)	Las plantas anuales y bienales se cultivan generalmente, a part semillas, en medios de crecimiento y se transportan enraizadas medios de crecimiento.				
		Plantas de invernadero en maceta	Diversos medios (en particular: medios sintéticos, vermiculita , perlita, turba, turba, turba de coco)	Las plantas de invernadero en maceta por lo general se cultivar exclusivamente en invernaderos en condiciones controladas y e de crecimiento libres de suelo.	n medios			
		Plantas de interior ornamentale s y floridas	Diversos medios (en particular: medios sintéticos, vermiculita , perlita, turba de coco)	Las plantas se pueden cultivar en suelo (en el campo), en conte (en viveros) o en maceta (en invernaderos), en medios de creci libres de suelo.				
		Plántulas, plantones	Diversos medios (en particular: turba, vermiculita) o suelo como	Estas plantas jóvenes generalmente están enraizadas en suelo medio de crecimiento libre de suelo, en contenedores o bandeja	p en un as.			

		Comment	Comment			Explanatior	ı	Language	Country
no.	no.	type							
				contamina nte					
			Bulbos y tubérculos, raíces tuberosas y raíces perennes herbáceas en estado latente	Suelo, turba (<i>Lilium</i>) o ninguno (<i>Tulipa</i>)	Los bulbos, los tubérculos (incluidos los cormos y rizomas), las r tuberosas y las raíces perennes herbáceas generalmente se pro cultivan en campos de cultivo, pero se transportan en estado lat medios de crecimiento. Algunos bulbos, como los lirios, son muy de transportar completamente libres de suelo.	pagan y ente y sin			
			Plantas de vivero a raíz desnuda	Suelo, ninguno	La raíz desnuda es una técnica de arboricultura que consiste en un árbol o arbusto cultivado en el campo con el fin de inducir un latente. La planta de vivero se puede sacudir para eliminar parte o se puede lavar para liberarla de todo resto de suelo y medios o crecimiento. El tamaño de la planta y la estructura de su raíz, as tipo de suelo, influyen en gran medida en la facilidad para elimin del sistema radicular.	estado del suelo, le í como el			
			Plantas de vivero con desarrollo frenado artificialment e	Suelo	Suele ser muy difícil lavar las raíces de estas plantas para elimir suelo. Las plantas se pueden trasplantar a medios de crecimient suelo y cultivarse en invernaderos utilizando medidas integradas mitigación del riesgo con el fin de reducir al mínimo los riesgos o asociados a las mismas.	o libres de de			
			Árboles y arbustos con suelo	Suelo	Los árboles y arbustos más viejos, en particular los árboles sing menudo se trasladan en el sector de los viveros como árboles el "en cepellón con arpillera". Estos productos contienen un gran vi suelo.	kcavados o			
			TapetesTep es de césped [past o en rollo]	Suelo	Los <u>tapetes tepes</u> de césped contienen un gran volumen de sue constituyen una vía potencial para muchas plagas del suelo.	о у			
541.	86	Translation	Plant type	Growing media	Comments	the terms 'T	version of the draft standard uses ourbe ou gazon en plaques'. The " should be avoided because it	English	Canada

. Para. no.	Comment type	Comment			Explanatio	n	Language	Country
		Unrooted cuttings	None		peat, moss)	fusion with other synonyms (e.g. also used in this standard. elete the French term "tourbe" and		
		Plants rooted in water or water-based nutrient solutions	Water	Some plants may be grown from cuttings in water or in water-ba solutions, with or without synthetic growing media.	replace it by	"gazon" in both columns.		
		Tissue cultured plants	Sterile, agar-like	Tissue cultured plants are produced in association with sterile ag growing media. They may be shipped in sealed aseptic containe agar.				
		Epiphytic plants	Tree fern slabs, bark, wood, sphagnum moss, volcanic cinder, rock	Epiphytic plants, such as bromeliads and orchids, are often ship association with tree fern slabs, bark, wood, sphagnum moss, vo cinder, rock and so forth. These materials are generally intended support and ornamentation rather than being true growing media	Icanic for			
		Rooted herbaceous cuttings	Various (including peat, coco peat, synthetic media, sphagnum moss)	Rooted herbaceous cuttings are generally rooted and moved in growing media that may be contained in peat-pots or coco-pots. are tender and the growing media cannot be removed without in plants. The growing cycle for these plants is generally very short	The roots uring the			
		Plants grown from seed	Various (including peat, vermiculite , perlite)	Annuals and biennials are generally grown from seed in growing moved as rooted in growing media.	media and			
		Potted greenhouse plants	Various (including synthetic	Potted greenhouse plants are generally grown exclusively in gre under controlled conditions and in soil-free growing media.	enhouses			

Comm. no.	Comment type	Comment			Explanatio	n	Language	Country
			media, vermiculite , perlite, peat, coco peat)					
		Ornamental and flowering houseplants	Various (including synthetic media, vermiculite , perlite, coco peat)	The plants may be field grown in soil, grown as containerized nu or grown as potted greenhouse plants in soil-free growing media				
		Liners, whips	Various (including peat, vermiculite) or soil as a contamina nt	These young plants are generally rooted in soil or in soil-free gromedia in containers or trays.	cwing			
		Dormant bulbs and tubers, tuberous roots and herbaceous perennial roots	Soil, peat (<i>Lilium</i>) or none (<i>Tulipa</i>)	Bulbs, tubers (including corms and rhizomes), tuberous roots an herbaceous perennial roots are generally propagated and growr but shipped dormant and free from growing media. Certain bulbs lilies, are very difficult to ship completely free from soil.	in fields			
		Bare root nursery stock	Soil, none	Bare root is a technique of arboriculture whereby a field grown to is dug up in order to put it into a dormant state. The nursery stoc shaken to remove some of the soil, or it may be washed free fro and growing media. The size and root structure of the plant and soil has a large impact on the ability to remove soil from the root	k may be m all soil he type of			
		Artificially dwarfed nursery stock	Soil	The plant roots are typically very difficult to wash free from soil. may be transplanted to soil-free growing media and grown in gre using integrated risk mitigation measures in an effort to minimize risks associated with them.	enhouses			

		Comment type	Comment			Explanation		Language	Country
			Trees and shrubs with soil	Soil	Older trees and shrubs, including specimen trees, are often mov nursery trade as dug trees or "ball and burlap". This material incl large volume of soil.				
			Turf or grass sod		Turf or grass sod contains a large volume of soil and is a potenti for many soil pests.	al pathway			
			<u>Gazon ou</u> gazon en plaques	Soil	Le gazon et le gazon en plaques contiennent de grandes quanti et constituent une filière potentielle pour de nombreux ravageurs souterrains.				
542.	89	Editorial	of growing med	dia accomp	list of pests that may be of concern with respect to the movement anyingin association with plants for planting	- Renumberi Consistent	ng. Change to APPENDIX 3	English	Thailand
543.	89	Editorial			st of pests that may be of concern with respect to the movement anying associated with plants for planting	-Renumberir meaning	ng. Change to APPENDIX 3 -Clearer	English	Malaysia
544.	89	Editorial			list of pests that may be of concern with respect to the movement anying plants for planting	Renumberin	g. Change to APPENDIX 3	English	Viet Nam
	89		of growing mod	dia accomp	st of pests that may be of concern with respect to the movement anying plants for planting	deleted . (not text) Instead should be a taxonomic le by some cor root knot neu a world pers are regulated in families A Pratylenchid regulated ec Longidoridae nematodes a	endix 2 not very useful and could be refernce to it in the main body of of having an "indicative list" there more complete tabulation on higher avels, which may be complemented nmon examples (PWN, cyst- and matodes). Nematodes: There are in pective many more nematodes that d, and listed by the different RPPO:s, endoparasitic nematodes (species nguinidae, Hoplolaimidae, ae and Heteroderidae) and toparasites in the family e). PWN, cyst- and root knot are some common examples.		EPPO, Norway
546.	89	Substantive			st of pests that may be of concern with respect to the movement anying plants for planting	different taxo	phomic entities, it includes pests that to be associated with plants for	English	Uruguay
547.	89	Substantive			st of pests that may be of concern with respect to the movement anying plants for planting	This list is no different taxo		U U	COSAVE, Paraguay,

	1	Comment type	Comment	Explanation	Language	Country
				planting, it is confusing		Chile, Argentina, Peru, Brazil
548.	89		APPENDIX 2: Indicative list of pests that may be of concern with respect to the movement of growing media accompanying plants for planting	This list is not needed, is incomplete, it mixes different taxonomic entities, it includes pests that are not likely to be associated with plants for planting, it is confusing		Ecuador, Mexico, OIRSA, Belize, Costa Rica
549.	89		APPENDIX 2: Indicative list of pests that may be of concern with respect to the movement of growing media accompanying plants for planting	Depending on the circumstance, nearly any plant pest could be present in frowing media. This brief table does not help or add anything to the standard.		Australia
550.	89		APPENDIX 2: Indicative list of pests that may be of concern with respect to the movement of growing media accompanying plants for planting (delete)	This table is not comprehensive Especially if growing media is recognized as a pathway of fruit flies, this may cause interruptions of existing trades because pathway of fruit flies are prohibited by many countries.	English	Korea, Republic of
551.	89		APPENDIX 2: Indicative list of pests that may be of concern with respect to the movement of growing media accompanying plants for planting		English	United States of America
552.	89		APPENDIX 2: Indicative list of pests that may be of concern with respect to the movement of growing media accompanying plants for planting	Delete Appendix 2 - This table is incomplete and could be misleading because pests of concern are not the same in every country. It should be replaced with a new sentence at the end of paragraph12.	English	Canada
553.	89	Substantive	APPENDIX 2: Indicative list of pests that may be of concern with respect to the movement of growing media accompanying plants for planting	Present appendix 2 is not very useful and could be deleted (no reference to it in the main body of text). Instead of having an "indicative list" there should be a more complete tabulation on higher taxonomic levels, which may be complemented by some common examples (PWN, cyst- and root knot nematodes). Nematodes: There are in a world perspective many more nematodes that		European Union

Comm. no.		Comment type	Comment	Explanation	Language	Country
				are regulated, and listed by the different RPPOs, i.e. regulated endoparasitic nematodes (species in families Anguinidae, Hoplolaimidae, Pratylenchidae and Heteroderidae) and regulated ectoparasites (in the family Longidoridae). PWN, cyst- and root knot nematodes are some common examples.		
	89		APPENDIX 2: Indicative list of pests that may be of concern with respect to the movement of growing media accompanying plants for planting	text of standard, nor is the information provided in sufficient detail to be useful. If retained, the definition of organism should be extended to the level of Arthropoda as this taxonomic level is more appropriate that including individual taxa.		Australia
	89		con respecto al movimiento de los medios de crecimiento que acompañan a las plantas para plantar			El Salvador
556.	90	Substantive	Agrobacterium	This list is not needed, is incomplete, it mixes different taxonomic entities, it includes pests that are not likely to be associated with plants for planting, it is confusing	English	Uruguay
			Streptomycos			
			Fungi • Tillotia			
			Phytophthora and other oomycetes			
			Synchytrium			
			Nematodes			
			Bursapholenchus			

Comm.		Comment	Comment	Explanation	Language	Country
no.	no.	type				
			Cyst nematodes, root knot nematodes			
			Viruses and virus-like organisms transmitted via nematode vectors			
			Insects and mites			
			Anastrepha			
			Diabrotica			
			Rhagolotis			
			Agromyzidae			
			Other fruit flies			
			Thrips (below ground part of life cycle)			
			Bark beetles			
			Molluscs			
			Plants (beyond the intended plant)			
			Seeds and other propagulos			
557.	90	Substantive	Bacteria and phytoplasmas		English	COSAVE,
			Agrobactorium	different taxonomic entities, it includes pests that are not likely to be associated with plants for planting, it is confusing		Paraguay, Chile, Argentina,
			• Ralstonia			Peru, Brazil

Comm.	Para.	Comment	Comment	Ex	planation	Language	Country
		type					
			Stroptomyces				
			Fungi				
			• Tillotia				
			Phytophthora and other oomycetes				
			• Synchytrium				
			Nematodes				
			Bursaphelenchus				
			Cyst nematodes, root knot nematodes				
			Viruses and virus-like organisms transmitted via nematode vectors				
			Insects and mites				
			Anastropha				
			Diabrotica				
			- Dhogolojia	H			
			Rhagolotis				
				\vdash			
			Agromyzidae				
			Other fruit flies				
			Thrips (below ground part of life cycle)				

Comm.	Para.	Comment	Comment	Ex	planation	Language	Country
		type					
			Bark beetles				
			Molluscs				
			Plants (beyond the intended plant)				
			Seeds and other propagules				
558.	90	Substantive	Bacteria and phytoplasmas	Thi	s list is not needed, is incomplete, it mixes erent taxonomic entities, it includes pests that	English	Ecuador,
			Agrobacterium	are	not likely to be associated with plants for nting, it is confusing		Mexico, OIRSA, Belize,
			Ralstonia				Costa Rica
			Stroptomyces				
			Fungi				
			• Tillotia				
			Phytophthora and other oomycetes				
			Synchytrium				
			Nematodes				
			Bursaphelenchus				
			Cyst nematodes, root knot nematodes				
			Viruses and virus-like organisms transmitted via nematode vectors				
			Insects and mites				

		Comment type	Comment	Explanation	Language	Country
			Anastropha			
			Diabrotica			
			Rhagoletis			
			Agromyzidae			
			Other fruit flies			
			Thrips (below ground part of life cycle)			
			Bark beetles			
			Molluscs			
			Plants (beyond the intended plant)			
			Seeds and other propagules			
559.	90	Substantive	Bacteria and phytoplasmas	Delete. Depending on circumstances, nearly any plant pest could be present in growing media.	English	Australia
			Agrobactorium	Appendix does not help nor add anything to standard, nor is it refered to in body of text. The information is also too vague and does not		
			Ralstonia	provide enough detail to be useful. This appendix is also not referred to in the text body.		
			Streptomyces			
			Fungi			

		Comment	Comment	Ex	planation	Language	Country
no.	no.	type					
			• Tillotia				
			Phytophthora and other oomycetes				
			Synchytrium				
			Nematodes				
			Bursaphelenchus				
			Cyst nematodes, root knot nematodes				
			Viruses and virus-like organisms transmitted via nematode vectors				
			Insects and mites				
			Anastropha				
			Diabrotica				
			Rhagoletis				
			Agromyzidae				
			Other fruit flies				
			Thrips (below ground part of life cycle)				
			Bark beetles				
			Molluscs				
			Plants (beyond the intended plant)				

	1	Comment type	Comment	E	xplanation	Language	Country
			Seeds and other propagules				
560.	90	Substantive	Bacteria and phytoplasmas	sh	be of the nematodes listed are virus vectors, ould consider adding nematode examples that	English	United States of
			Agrobacterium	sc	tor viruses. Also add viruses vectored in the i by fungi.		America
			Ralstonia				
			Streptomyces				
			Fungi				
			• Tilletia				
			Phytophthora and other oomycetes				
			Synchytrium				
			Nematodes				
			Bursaphelenchus				
			Cyst nematodes, root knot nematodes				
			Viruses and virus-like organisms transmitted via nematode vectors		-		

Comm no.		Comment type	Comment	Ex	planation	Language	Country
			Insects and mites				
			Anastrepha				
			Diabrotica				
			Rhagoletis				
			Agromyzidae				
			Other fruit flies				
			Thrips (below ground part of life cycle)				
			Bark beetles				
			Molluscs				
			Plants (beyond the intended plant)]		
			Seeds and other propagules				
561.	90	Substantive	Bacteria and phytoplasmas	Be	cause Synchytrium is not a member of mycetes but a member of Fungi. Phytophthora	English	Japan
			Agrobacterium	is a	a member of oomycetes.		

	Comment type	Comment	Expl	lanation	Language	Country
		Ralstonia				
		Streptomyces				
		Fungi				
		 Tilletia Synchytrium 				
		Phytophthoraand other oomycetes Oomycetes				
		Synchytrium_Phytophthora_				
		Nematodes				
		Bursaphelenchus				
		Cyst nematodes, root knot nematodes				
		Viruses and virus-like organisms transmitted via nematode vectors				
		Insects and mites				
		Anastrepha				
		Diabrotica				
		Rhagoletis				
		Agromyzidae				

		Comment type	Comment	Explanation	Language	Country
			Other fruit flies			
			Thrips (below ground part of life cycle)			
			Bark beetles			
			Molluscs			
			Plants (beyond the intended plant)			
			Seeds and other propagules			
562.	<mark>90</mark>	Substantive	Bactoria and phytoplasmas	Delete the whole table. Please see comment in	English	Canada
			Agrobacterium	paragraph 89.		
			Ralstonia			
			Streptomyces			
			Fungi			
			• Tilletia			
			Phytophthora and other oomycetes			
			Synchytrium			
			Nematodes			
			Bursaphelenchus			

	1	Comment type	Comment	Explanation	Languag	e Country
		, ype				
			Cyst nematodes, root knot nematodes			
			Viruses and virus-like organisms transmitted via nematode vectors			
			Insects and mites			
			Anastropha			
			Diabrotica			
			Rhagolotis			
			Agromyzidae			
			Other fruit flies			
			Thrips (below ground part of life cycle)			
			Bark beetles			
			Molluscs			
			Plants (beyond the intended plant)			
			Seeds and other propagules			
63.	90	Technical	table deleted	see [89]	English	EPPO, Norway
64.	90	Technical	Bacteria and phytoplasmas	Fusarium is easy to spread associate growing media. The both genus of Phy and Synchytrium are belong to Oomyc are easy to associate with growing me	tophthora etes and	China

	Comment type	Comment	Explanation	Language Coun	ntry
		Agrobacterium			
		Ralstonia			
		Streptomyces			
		Fungi			
		 <i>Tilletia</i> <u>Fusarium</u> 			
		Phytophthora and other oomycetes			
		 Synchytrium Phytophthora Synchytrium 			
		Nematodes			
		Bursaphelenchus			
		Cyst nematodes, root knot nematodes			
		Viruses and virus-like organisms transmitted via nematode vectors			
		Insects and mites			
		Anastrepha			
		Diabrotica			
		Rhagoletis			

		Comment type	Comment	Explanation	Language	Country
			Agromyzidae			
			Other fruit flies			
			Thrips (below ground part of life cycle)			
			Bark beetles			
			Molluscs			
			Plants (beyond the intended plant)			
			Seeds and other propagules			
565.	90	Technical	Bacteria and phytoplasmas	Fungi can also disseminate viruses	English	NEPPO
			Agrobacterium			
			Ralstonia			
			Streptomyces			
			Fungi			
			Tilletia			
			Phytophthora and other oomycetes			
			Synchytrium			
	1	1	E		1	1

		Comment type	Comment	Ex	planation	Language	Country
			Bursaphelenchus				
			Cyst nematodes, root knot nematodes				
			Viruses and virus-like organisms transmitted via nematode and other vectors				
			Insects and mites				
			Anastrepha				
			Diabrotica				
			Rhagoletis				
			Agromyzidae				
			Other fruit flies				
			Thrips (below ground part of life cycle)				
			Bark beetles				
			Molluscs				
			Plants (beyond the intended plant)				
			Seeds and other propagules				
566.	90	Technical	Bactéries et phytoplasmes	ро	ur un meilleur classement	Français	Mauritania
			Agrobactérie				

Comm.	Para.	Comment	Comment	Explanation	Language	Country
		type				
			Ralstonia			
			Streptomyces			
			Champignons,Bigarrure et autres oomycètes			
			Tilletia			
			Bigarrure et autres oomycètes			
			Synchytrium			
			Nématodes			
			Bursaphelenchus			
			Nématodes à kyste, nématodes à galle des racines			
			Virus et organismes pseudoviraux transmis par les nématodes			
			Insectes et acariens			
			Anastrepha			
			Diabrotica			
			Rhagoletis			
			Agromyzidae			
			Autres mouches des fruits			
			<u>[]</u>			

		Comment type	Comment	Explanation	Language	Country
			Thrips (sous terre pendant une partie du cycle biologique)			
			Scolytes			
			Mollusques			
			Végétaux (autres que le végétal concerné)			
			Semences et propagules			
567.	90	Technical	table deleted	See [89].	English	European Union
568.	90	Technical	Bacteria and phytoplasmas	Because other organisms can transmit virus, for	English	Morocco
			Agrobacterium	example some fungi as Olpidium spp.		
			Ralstonia			
			Streptomyces			
			Fungi			
			Tilletia			
			Phytophthora and other oomycetes			
			Synchytrium			
			Nematodes			
			Bursaphelenchus			

Comm.	Para.	Comment	Comment	Ex	planation	Language	Country
no.	no.	type					
			Cyst nematodes, root knot nematodes	T			
			Viruses and virus-like organisms transmitted via nematode and other vectors				
			Insects and mites				
			Anastrepha				
			Diabrotica				
			Rhagoletis				
			Agromyzidae				
			Other fruit flies				
			Thrips (below ground part of life cycle)				
			Bark beetles				
			Molluscs				
			Plants (beyond the intended plant)				
			Seeds and other propagules				