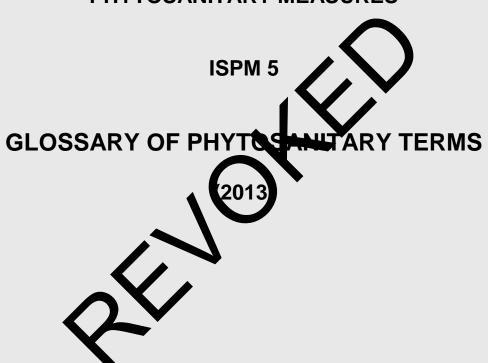
ISPM 5



INTERNATIONAL STANDARDS FOR PHYTOSANITARY MEASURES



Produced by the Secretariat of the International Plant Protection Convention



Publication history

This is not an official part of the standard

1986-05 RPPOs recommended creation of a Core vocabulary of phytosanitary terms

1988-02 RPPOs reviewed and approved for NAPPO and EPPO consultation

1989-09 RPPOs prepared draft Core vocabulary of phytosanitary terms

1990 FAO published *FAO Glossary of phytosanitary terms*; FAO Plant Protection Bulletin 38(1)

1991-05 TC-RPPOs endorsed topic *Glossary* phytosanitary terms (1991-001)

1993-05 TC-RPPOs revised terms and recommended to establish WG for the *FAO Glossary* (GWG)

1994-02 1st meeting of the GWG

1994-03 CEPM-1 revised text and agreed to add new terms

1995-05 CEPM-2 decided publication of revised *Glossary* of phytosanitary terms as an ISPM

ISPM 5. 1995. Glossary of phytosanitary terms. Rome, IPPC, FAO.

1996-05 CEPM-3 revised text of Glossary of phytosanitary terms

1997-10 CEPM-4 revised the text and 29th Session of the FAO Conference approved **ISPM 5**. 1997

1999-02 GWG revised standard

1999-05 CEPM-6 revised standard for adoption

1999-10 ICPM-2 adopted revised ISPM 5. 1999.

1999-09 GWG revised standard

2000-05 ISC-1 revised standard and approved for MO

2000-06 Sent for MC

2000-11 ISC-2 revised standard for adoption

2001-04 ICPM-3 adopted revised ISP 5. 200

2000-03 and 2001-03 GWG reversion and

2001-05 ISC-3 approved specification veriew and updating of the glossal, of physician terms

2001-05 ISC-3 revised standa and approved for MC

2001-06 Sent for MC

2001-11 ISC-4 revised standard for adoption

2002-03 ICPM-4 adopted revised ISPM 5. 2002.

2002-02 GWG revised standard

2002-05 SC revised standard and approved MC

2002-06 Sent for MC

2002-11 SC revised standard for adoption

2003-04 ICPM-5 adopted revised ISPM 5. 2003.

2003-02 GWG revised standard

2003-05 SC-7 agreed recommendations by TPG

2003-09 GWG revised standard

2003-11 SC revised standard and requested to add new terms on ISPMs

2004-02 GWG revised standard

2004-04 SC revised standard and approved MC

2004-06 Sent for MC

2004-11 SC revised standard for adoption

2005-04 ICPM-7 adopted revised ISPM 5. 2005.

2004-10 & 2005-10 GWG revised standard

2006-05 SC revised standard and approved for MC

2006-06 Sent for MC

2006-11 SC revised standard for adoption

2007-03 CPM-2 adopted revised ISPM 5. 2007.

2006-03 CPM-1 created the Technical panel for the glossary (TPG)

2006-10 1st meeting of the TPG. TPG revised standard

2007-05 SC revised standard and approved for MC

2007-06 Sent for MC

2007-11 revised standard for adoption

2008-04 CPM-3 adopted revised ISPM 5. 2008.

2007-10 TPG resed standa

2008-05 SCA revised standard and approved for MC

2008-06 ent for MC

2008-1 SC ruised standard for adoption

20 9-03 CM-4 add red revised ISPM 5. 2009.

20 revised standard

2 9-05 SC revised standard and approved for MC

009 6 Sent for MC

09-11 SC revised standard for adoption

010-03 CPM-5 adopted revised ISPM 5. 2010.

2009-06 TPG started reviewing adopted standards for consistency in the use of terms

2009-10 TPG proposed ink amendments to ISPMs 3, 10, 13, 14, 22 and Supplement 1 to ISPM 5

2009-11 SC revised proposed ink amendments

2010-03 CPM-5 noted ink amendments in the English version

2010-10 TPG proposed ink amendments to ISPM 5

2010-11 SC revised proposed ink amendments

2011-03 CPM-6 noted ink amendments in the English version

2011-05 IPPC Secretariat applied ink amendments as noted by CPM-6 (2011)

2010-10 TPG revised standard

2011-05 SC revised standard and approved for MC

2011-06 Sent for MC

2011-11 SC revised standard for adoption

2012-03 CPM-7 adopted revised ISPM 5. 2012.

2013-08 IPPC Secretariat applied ink amendments as noted by CPM-8 (2013)

Supplement 1

1999-10 ICPM-2 added topic Official control (1999-002)

2000-03 EWG developed draft text

2000-05 ISC-1 revised draft text and approved for MC

2000-06 Sent for MC

2000-11 ISC-2 revised draft text for adoption

2001-04 ICPM-3 adopted Supplement 1 to ISPM 5

ISPM 5. Supplement 1 Guidelines on the interpretation and application of the concept of official control for regulated pests (2001)

2005-03 ICPM-7 added the topic not widely distributed (2005-008) (supplement to ISPM No. 5: Glossary of phytosanitary terms)

2006-05 SC approved specification 33

2008-05 SC-7 reviewed draft

2010-03 revised to incorporate consistency ink amendments noted by CPM-5 (2010)

2011-05 SC approved for member consultation

2011-06 member consultation

2011-11 TPG reviewed member comments

2011-11 SC approved draft supplement to ISPM

2012-03 CPM-7 adopted revised supplement 1 to ISPM 5

ISPM 5. Supplement 1. Guidelines on the interpretation and application of the concepts of "official control" and "not widely distributed" (2012)

Supplement 2

2001-04 ICPM-3 added topic *Defining economic importance* (2001-004)

2002-02 GWG developed draft text

2002-05 SC revised draft text and approved for MC

2002-06 Sent for MC

2002-11 SC revised draft text for adoption

2003-04 ICPM-5 adopted Supplement 2 to ISPM 5

ISPM 5. Supplement 2 Guidelines on the understanding of potential economic importance and related terms including reference to environmental considerations (2003)

2013-08 IPPC Secretariat applied ink amendments as noted by CPM-8 (2013)

Appendix 1

2005-03 ICPM-7 IPPC and CBD (Convention on Biological Diversity) secretariats decided cooperation programme

2006-04 CPM-1 agreed assess progress on the work programme (2006-033)

2006-10 TPG developed draft text

2007-05 SC requested TPG to develop draft text CBD terms

2007-10 TPG developed draft text

2008-05 SC revised draft text and approved for MC

2008-06 Sent for Ma

2008-11 SC revised draft tea for adoption

2009-03 CPM-4 ampted Appendix 1 to ISPM 5

ISPM 5. ppendix Tertinology of the Convention on Biological Divisity relation to the Glossary of phytosa targuerms (2009)

Publication his y: Last modified August 2013

CONTENTS

Ado	option		5-7
INT	RODUC	ΓΙΟΝ	5-7
Sco	ре		5-7
Pur	pose		5-7
	_		
		eference	
PH.	VTOSAN	ITARY TERMS AND DEFINITIONS	5-10
		NT 1: Guidelines on the interpretation and application of the concepts	
50.		and "not widely distributed"	
INT	TRODUC'	ΓΙΟΝ	5-23
Sco	pe		5-23
	_		5-23
			5-23
BA	CKGROU	JND	5-23
Rec	quirements		5-24
1.	General	Requirements	5-24
	1.1	Official control	5-24
	1.2	Not widely distributed	5-24
	1.3	Decision to apply official out al	5-24
2.	Specific	Requirements	5-25
	2.1	Technical justific on	5-25
	2.2	Non-discrimination.	5-25
	2.3	Transpa. pr	5-26
	2.4	Enforcemen	5-26
	2.5	Mandatory nature of official control	5-26
	2.6	Area of application	
	2.7	NPPO authority and involvement in official control	5-26
SU	PPLEME	NT 2: Guidelines on the understanding of potential economic importance	and related
	terms in	cluding reference to environmental considerations	5-27
1.	Purpose	and Scope	5-27
2.	Backgro	und	5-27
3.	Economi	ic Terms and Environmental Scope of the IPPC and ISPMs	5-27
4.	Econom	ic Considerations in PRA	5-28
	4.1	Types of economic effect	5-28
	4.2	Costs and benefits	
5.	Applicat	ion	5-29
	Reference	ces	5-29

API	PENDIX TO SUPPLEMENT 2	5-30
API	PENDIX 1: Terminology of the Convention on Biological Di	•
	of phytosanitary terms	5-31
1.	Introduction	5-31
2.	Presentation	5-31
3.	Terminology	5-31
	3.1 "Alien species"	5-31
	3.2 "Introduction"	5-32
	3.3 "Invasive alien species"	5-33
	3.4 "Establishment"	5-33
	3.5 "Intentional introduction"	5-34
	3.6 "Unintentional introduction"	5-34
	3.7 "Risk analysis"	5-34
4.	Other concepts	5-35
5.	References	5-35

Adoption

This standard was first adopted by the Twenty-eighth Session of the FAO Conference in November 1995. It has undergone repeated modifications since that time. The current edition of ISPM 5 arises from an amendment adopted by the Seventh Session of the Commission on Phytosanitary Measures in March 2012.

Supplement 1 was first adopted by the Third Session of the Interim Commission on Phytosanitary Measures in April 2001. The first revision of Supplement 1 was adopted by the Seventh Session of the Commission on Phytosanitary Measures in March 2012. Supplement 2 was adopted by the Fifth Session of the Interim Commission on Phytosanitary Measures in April 2003. Appendix 1 was adopted by the Fourth Session of the Commission on Phytosanitary Measures in March—April 2009.

INTRODUCTION

Scope

This reference standard is a listing of terms and definitions with specific meaning for phytosanitary systems worldwide. It has been developed to provide a harmonized internationally agreed vocabulary associated with the implementation of the International Plant Projection Convention (IPPC) and International Standards for Phytosanitary Measures (ISPMs).

Purpose

The purpose of this reference standard is to increas clarity and consistency in the use and understanding of terms and definitions which are used a contracting parties for official phytosanitary purposes, in phytosanitary legislation and regulations as well as for official information exchange.

References

- CBD. 2000. Cartagena Protocol on Biosa ty to the Convention on Biological Diversity. Montreal, CBD.
- CEPM. 1996. Report of the hird Meeting of the FAO Committee of Experts on Phytosanitary Measures, Rome, 13–1. May 1996. Rome, IPPC, FAO.
- —— 1999. Report of the fixth Meet Ig of the Committee of Experts on Phytosanitary Measures, Rome, Italy: 17, 21 M, v 1999. Rome, IPPC, FAO.
- **CPM.** 2007. Report of Second Session of the Commission on Phytosanitary Measures, Rome, 26–30 March 2007. Rolle, IPPC, FAO.
- —— 2008. Report of the Third Session of the Commission on Phytosanitary Measures, Rome, 7–11 April 2008. Rome, IPPC, FAO.
- —— 2009. Report of the Fourth Session of the Commission on Phytosanitary Measures, Rome, 30 March–3 April 2009. Rome, IPPC, FAO.
- —— 2010. Report of the Fifth Session of the Commission on Phytosanitary Measures, Rome, 22–26 March 2010. Rome, IPPC, FAO.
- —— 2012. Report of the Seventh Session of the Commission on Phytosanitary Measures, Rome, 19–23 March 2012. Rome, IPPC, FAO.
- **FAO.** 1990. FAO Glossary of phytosanitary terms. *FAO Plant Protection Bulletin*, 38(1): 5–23. [current equivalent: ISPM 5]
- **FAO.** 1995. See ISPM 5:1995.
- **ICPM.** 1998. Report of the Interim Commission on Phytosanitary Measures, Rome, 3–6 November 1998. Rome, IPPC, FAO.
- —— 2001. Report of the Third Interim Commission on Phytosanitary Measures, Rome, 2–6 April 2001. Rome, IPPC, FAO.

- —— 2002. Report of the Fourth Interim Commission on Phytosanitary Measures, Rome, 11–15 March 2002. Rome, IPPC, FAO.
- —— 2003. Report of the Fifth Interim Commission on Phytosanitary Measures, Rome, 07–11 April 2003. Rome, IPPC, FAO.
- —— 2004. Report of the Sixth Interim Commission on Phytosanitary Measures, Rome, 29 March–02 April 2004. Rome, IPPC, FAO.
- —— 2005. Report of the Seventh Interim Commission on Phytosanitary Measures, Rome, 4–7 April 2005. Rome, IPPC, FAO.
- IPPC. 1997. International Plant Protection Convention. Rome, IPPC, FAO.
- **ISO/IEC**. 1991. *ISO/IEC Guide 2:1991, General terms and their definitions concerning standardization and related activities*. Geneva, International Organization for Standardization, International Electrotechnical Commission.
- **ISPM 2.** 1995. *Guidelines for pest risk analysis*. Rome, IPPC, FAO. [published 1996] [revised; now ISPM 2: 2007]
- **ISPM 2.** 2007. Framework for pest risk analysis. Rome, IPPC, FAO.
- **ISPM 3**. 1995. *Code of conduct for the import and release of exotic bistos val control agents*. Rome, IPPC, FAO. [published 1996] [revised; now ISPM 3: 2005]
- **ISPM 3**. 2005. Guidelines for the export, shipment, import and release of bibliogical control agents and other beneficial organisms. Rome, IPPC, FAO.
- **ISPM 4**. 1995. Requirements for the establishment of pett frecience. From Pome, IPPC, FAO. [published 1996]
- ISPM 5. 1995. Glossary of phytosanitary terms. Rom. Il S. FAO. [published 1996]
- ISPM 6. 1997. Guidelines for surveillance. Rop., PC, AO.
- ISPM 7. 1997. Export certification system. R me, IPPC FAO
- ISPM 8. 1998. Determination of pest static in an area Rome, IPPC, FAO.
- ISPM 9. 1998. Guidelines for pest eradicat in programmes. Rome, IPPC, FAO.
- **ISPM 10**. 1999. Requirements for the stab shment of pest free places of production and pest free production sites. Rome, J.P.C., FAO.
- ISPM 11. 2001. Pest risk par sis for quarantine pests. Rome, IPPC, FAO. [revised; now ISPM 11:2004]
- **ISPM 11**. 2004. Pest lisk a physis for quarantine pests including analysis of environmental risks and living modified of misms. Rome, IPPC, FAO.
- **ISPM 12**. 2001. Guideline. for phytosanitary certificates. Rome, IPPC, FAO.
- **ISPM 13**. 2001. Guidelines for the notification of non-compliance and emergency action. Rome, IPPC, FAO.
- **ISPM 14**. 2002. The use of integrated measures in a systems approach for pest risk management. Rome, IPPC, FAO.
- **ISPM 15**. 2002. *Guidelines for regulating wood packaging material in international trade*. Rome, IPPC, FAO. [revised; now ISPM 15:2009]
- **ISPM 16**. 2002. Regulated non-quarantine pests: concept and application. Rome, IPPC, FAO.
- **ISPM 18**. 2003. Guidelines for the use of irradiation as a phytosanitary measure. Rome, IPPC, FAO.
- **ISPM 20**. 2004. Guidelines for a phytosanitary import regulatory system. Rome, IPPC, FAO.
- **ISPM 22**. 2005. Requirements for the establishment of areas of low pest prevalence. Rome, IPPC, FAO
- ISPM 23. 2005. Guidelines for inspection. Rome, IPPC, FAO.
- **ISPM 24**. 2005. Guidelines for the determination and recognition of equivalence of phytosanitary measures. Rome, IPPC, FAO.

ISPM 25. 2006. Consignments in transit. Rome, IPPC, FAO.

ISPM 27. 2006. Diagnostic protocols for regulated pests. Rome, IPPC, FAO.

ISPM 28. 2007. Phytosanitary treatments for regulated pests. Rome, IPPC, FAO.

WTO. 1994. Agreement on the Application of Sanitary and Phytosanitary Measures. Geneva, World Trade Organization.

Outline of Reference

The purpose of this standard is to assist national plant protection organizations (NPPOs) and others in information exchange and the harmonization of vocabulary used in official communications and legislation pertaining to phytosanitary measures. The present version incorporates revisions agreed as a result of the approval of the International Plant Protection Convention (1997) and terms added through the adoption of additional International Standards for Phytosanitary Measures (ISPMs).

The Glossary contains all terms and definitions approved until the Seventh Session of the Commission on Phytosanitary Measures (CPM, 2012). References in square brackets refer to the approval of the term and definition, and not to subsequent adjustments in translation.

As in previous editions of the Glossary, terms in definitions are printed a bold to indicate their relation to other Glossary terms and to avoid unnecessary repetition of elements described elsewhere in the Glossary. Derived forms of words that appear in the Glossary, expressed from inspection, are also considered glossary terms.

PHYTOSANITARY TERMS AND DEFINITIONS

absorbed dose Quantity of radiating energy absorbed per unit of mass of a specified

target[ISPM 18:2003, revised CPM, 2012]

additional declaration A statement that is required by an importing country to be entered on a

> phytosanitary certificate and which provides specific additional information on a consignment in relation to regulated pests [FAO,

1990; revised ICPM, 2005]

An **officially** defined country, part of a country or all or parts of several area

> countries [FAO, 1990; revised FAO, 1995; CEPM, 1999; based on the World Trade Organization Agreement on the Application of Sanitary

and Phytosanitary Measures (WTO, 1994)]

area endangered See endangered area

area of low pest An **area**, whether all of a country, part of <u>a country</u>, or all or parts of prevalence

several countries, as identified by the cor authorities, in which a specific **pest occurs** at low levels an which it subject to effective

surveillance, control or eradication res [I PC. 19971

bark The layer of a woody trunk, bra oot outside the cambium [CPM,

20081

bark-free wood Wood from which all ingrown bark around knots and

of annual growth, has been removed bark pockets bety

[ISPM 15:2002; vised PM. 30081

ist or competitor, or other organism, used biological control agent A natural en m antago

> ...1995; revised ISPM 3:2005] for **pest contr**

buffer zone ding or adjacent to an area officially delimited for

tary purposes in order to minimize the probability of spread pest into or out of the delimited area, and subject to other control measures, if appropriate

:1999; revised ISPM 22:2005; CPM, 2007]

bulbs and tubers A **commodity class** for dormant underground parts of **plants** intended

for **planting** (includes corms and rhizomes) [FAO, 1990; revised

ICPM, 2001]

chemical pressure

Treatment of **wood** with a chemical preservative through a process of impregnation pressure in accordance with an official technical specification

[ISPM 15:2002; revised ICPM, 2005]

clearance (of a Verification of compliance with phytosanitary regulations [FAO,

consignment) 19951

The Commission on Phytosanitary Measures established under Article Commission

XI [IPPC, 1997]

A type of **plant**, **plant product**, or other article being moved for trade commodity

or other purpose [FAO, 1990; revised ICPM, 2001]

commodity class A category of similar **commodities** that can be considered together in

phytosanitary regulations [FAO, 1990]

commodity pest list A list of pests occurring in an area which may be associated with a

specific commodity [CEPM, 1996]

compliance procedure
(for a consignment)

Official procedure used to verify that a **consignment** complies with **phytosanitary import requirements** or **phytosanitary measures** related to **transit** [CEPM, 1999; revised CPM, 2009]

confinement (of a
regulated article)

Application of **phytosanitary measures** to a **regulated article** to prevent the escape of **pests** [CPM, 2012]

consignment

A quantity of **plants**, **plant products** or other articles being moved from one country to another and covered, when required, by a single **phytosanitary certificate** (a **consignment** may be composed of one or more **commodities** or **lots**) [FAO, 1990; revised ICPM, 2001]

consignment in transit

A **consignment** which passes through a country without being imported, and that may be subject to **phytosanitary measures** [FAO, 1990; revised CEPM, 1996; CEPM 1999; ICPM, 2002; ISPM 25:2006; formerly country of transit]

containment

Application of **phytosanitary measures** in and around an infested area to prevent **spread** of a **pest** [FAO, 1933]

contaminating pest

A **pest** that is carried by a **combor by** and in the case of **plants** and **plant products**, does not infest hos **plants** or **plant products** [CEPM, 1996; revised CEPM, 1999]

contamination

Presence in a **common v**, sorage place, conveyance or container, of **pests** or other **regulated crticres**, not constituting an **infestation** (see **infestation**) [CE M, 1997 revised CEPM, 1999]

control (of a pest)

Suppression, **Containment** or **eradication** of a **pest** population [FAO, 1995]

controlled area

(regulated area which an **NPPO** has determined to be the minimum in the necessary to prevent **spread** of a **pest** from a **quarantine area** CEP 1, 296]

corrective action plan (in an area)

Documented plan of **phytosanitary actions** to be implemented in an **area** officially delimited for phytosanitary purposes if a **pest** is detected or a tolerance level is exceeded or in the case of faulty implementation of officially established procedures [CPM, 2009]

country of origin (of a consignment of plant products) Country where the **plants** from which the **plant products** are derived were grown [FAO, 1990; revised CEPM, 1996; CEPM, 1999]

country of origin (of a **consignment** of **plants**)

Country where the **plants** were grown [FAO, 1990; revised CEPM, 1996; CEPM, 1999]

country of origin (of regulated articles other than plants and plant products)

Country where the **regulated articles** were first exposed to **contamination** by **pests** [FAO, 1990; revised CEPM, 1996; CEPM, 1999]

cut flowers and branches

A **commodity class** for fresh parts of **plants** intended for decorative use and not for **planting** [FAO, 1990; revised ICPM, 2001]

debarked wood Wood that has been subjected to any process that results in the

removal of **bark**. (Debarked wood is not necessarily **bark-free wood**.)

[CPM, 2008; replacing debarking]

Survey conducted to establish the boundaries of an **area** considered to delimiting survey

be infested by or **free from** a **pest** [FAO, 1990]

detection survey Survey conducted in an area to determine if pests are present [FAO,

1990; revised FAO, 1995]

detention Keeping a consignment in official custody or confinement, as a

phytosanitary measure (see quarantine) [FAO, 1990; revised FAO,

1995; CEPM, 1999; ICPM, 2005]

A procedure rendering plants or plant products incapable of devitalization

germination, growth or further reproduction [ICPM, 2001]

dose mapping Measurement of the **absorbed dose** distribution within a **process load**

> through the use of dosimeters placed at ific locations within the

process load [ISPM 18:2003]

dunnage Wood packaging material used t ort a **commodity** but

> which does not remain associmmodity [FAO, 1990;

revised ISPM 15:20021

A dynamic complex of **plan** micro-organism communities ecosystem animal

> and their abiotic envi teracting as a functional unit

20051 [ISPM 3:1995; re

efficacy (of a treatment) A defined, nd reproducible effect by a prescribed urable,

treatment [I

sanitary action undertaken in a new or unexpected emergency action

> ation [ICPM, 2001] sanitary

emergency measure **osanitary measure** established as a matter of urgency in a new

> ted phytosanitary situation. An emergency measure may or be a **provisional measure** [ICPM, 2001; revised ICPM, 2005]

endangered area An **area** where ecological factors favour the **establishment** of a **pest**

whose presence in the **area** will result in economically important loss

[FAO, 1995]

entry (of a consignment) Movement through a **point of entry** into an **area** [FAO, 1995]

entry (of a pest) Movement of a **pest** into an **area** where it is not yet present, or present

but not widely distributed and being **officially controlled** [FAO, 1995]

equivalence (of

The situation where, for a specified pest risk, different **phytosanitary** phytosanitary measures) **measures** achieve a contracting party's appropriate level of protection

[FAO, 1995; revised CEPM, 1999; based on the World Trade Organization Agreement on the Application of Sanitary and

Phytosanitary Measures (WTO, 1994); revised ISPM 24:2005]

eradication Application of **phytosanitary measures** to eliminate a **pest** from an

area [FAO, 1990; revised FAO, 1995; formerly eradicate]

establishment (of a pest) Perpetuation, for the foreseeable future, of a pest within an area after

entry [FAO, 1990; revised FAO, 1995; IPPC, 1997; formerly

established]

field A plot of land with defined boundaries within a **place of production**

on which a **commodity** is grown [FAO, 1990]

find free To inspect a consignment, field or place of production and consider

it to be **free from** a specific **pest** [FAO, 1990]

free from (of a consignment, field or place of production)

Without **pests** (or a specific **pest**) in numbers or quantities that can be detected by the application of **phytosanitary procedures** [FAO, 1990;

revised FAO, 1995; CEPM, 1999]

fresh Living; not dried, deep-frozen or otherwise conserved [FAO, 1990]

fruits and vegetables A commodity class for fresh parts of plants intended for consumption

or processing and not for **planting** [FAO, 1990; revised ICPM, 2001]

fumigation Treatment with a chemical agent that ruches be commodity wholly

or primarily in a gaseous state [FAO, 150; revise FAO, 1995]

germplasm Plants intended for use in breding or servation programmes

[FAO, 1990]

grain A commodity class for seeds intended for processing or consumption

and not for planting (see ee 1774), 1990; revised ICPM, 2001]

growing medium Any material in which land roots are growing or intended for that

purpose [FAQ, 1 90]

growing period (of a

plant species)

Time period of active with during a growing season [ICPM, 2003]

growing season Proof or periods of the year when plants actively grow in an area, page of production or production site [FAO, 1990; revised ICPM,

201

habitat of an ecosystem with conditions in which an organism naturally

occurs or can establish [ICPM, 2005]

harmonization The establishment, recognition and application by different countries

of **phytosanitary measures** based on common **standards** [FAO, 1995; revised CEPM, 1999; based on the World Trade Organization Agreement on the Application of Sanitary and Phytosanitary Measures

(WTO, 1994)]

harmonized phytosanitary measures

Phytosanitary measures established by contracting parties to the

IPPC, based on international standards [IPPC, 1997]

heat treatment The process in which a **commodity** is heated until it reaches a

minimum temperature for a minimum period of time according to an **official** technical specification [ISPM 15:2002; revised ICPM, 2005]

host pest list A list of pests that infest a plant species, globally or in an area

[CEPM, 1996; revised CEPM, 1999]

Species capable, under natural conditions, of sustaining a specific **pest** host range

or other **organism** [FAO, 1990; revised ISPM 3:2005]

Official document authorizing importation of a commodity in import permit

accordance with specified phytosanitary import requirements [FAO,

1990; revised FAO, 1995; ICPM, 2005]

inactivation Rendering micro-organisms incapable of development [ISPM 18:2003]

incidence (of a pest) Proportion or number of units in which a **pest** is present in a sample,

consignment, **field** or other defined population [CPM, 2009]

incursion An isolated population of a **pest** recently detected in an **area**, not

known to be **established**, but expected to survive for the immediate

future [ICPM, 2003]

infestation (of a commodity)

Presence in a commodity of a living pest of the plant or plant product concerned. Infestation includes infection [CEPM, 1997;

revised CEPM, 1999]

products or other Official visual examination of pla inspection

> regulated articles to determine ent or to determine compliance with phytosanita FAO, 1990; revised

FAO, 1995; formerly inspec

protection organization to inspector Person authorized by onal pl

discharge its functions [F

integrity (of a Composition of ament as described by its phytosanitary consi consignment)

certificate or otl r officia y acceptable document, maintained without

loss, addition tituti h [CPM, 2007]

for which plants, plant products or other articles intended use Declare

> nported. uced or used [ISPM 16:2002; revised CPM, 2009]

interception (of a consignment)

usalor controlled entry of an imported consignment due to emply with **phytosanitary regulations** [FAO, 1990; revised

interception (of a pest) The detection of a **pest** during **inspection** or **testing** of an imported consignment [FAO, 1990; revised CEPM, 1996]

Quarantine in a country other than the country of origin or intermediate quarantine

destination [CEPM, 1996]

International Plant Protection Convention International Plant Protection Convention, as deposited with FAO in

Rome in 1951 and as subsequently amended [FAO, 1990]

International Standard for Phytosanitary

Measures

An **international standard** adopted by the Conference of FAO, the Interim Commission on Phytosanitary Measures or the Commission on Phytosanitary Measures, established under the IPPC [CEPM, 1996;

revised CEPM, 1999]

international standards International standards established in accordance with Article X

paragraphs 1 and 2 of the **IPPC** [IPPC, 1997]

introduction (of a pest) The **entry** of a **pest** resulting in its **establishment** [FAO, 1990; revised

FAO, 1995; IPPC, 1997]

inundative release The release of large numbers of mass-produced biological control

agents or beneficial organisms with the expectation of achieving a

rapid effect [ISPM 3:1995; revised ISPM 3:2005]

IPPC International Plant Protection Convention, as deposited in 1951

with FAO in Rome and as subsequently amended [FAO, 1990; revised

ICPM, 2001]

irradiation Treatment with any type of ionizing radiation [ISPM 18:2003]

ISPM International Standard for Phytosanitary Measures [CEPM, 1996;

revised ICPM, 2001]

kiln-drying A process in which wood is dried in a closed chamber using heat

and/or humidity control to achieve a required moisture content

[ISPM 15:2002]

living modified organism

Any living organism that possesses a novel combination of genetic material obtained through the use of modern biotechnology

[Cartagena Protocol on Biosafety to Le Convention on Biological

Diversity (CBD, 2000)]

LMO living modified organism [ISP] [11:2/94]

lot A number of units of a single correlation, identifiable by its

homogeneity of composition, or a etc., forming part of a

consignment [FAO, 1990

mark An official stand or braid, Aternationally recognized, applied to a

regulated article to attest as phytosanitary status [ISPM 15:2002]

minimum absorbed dose

(Dmin)

The localized minimum absorbed dose within the process load

[ISPM 1 2003]

modern biotechnology

P e application of:

d. in vitro nucleic acid techniques, including recombinant coxyribonucleic acid (DNA) and direct injection of nucleic

acid into cells or organelles; or

b. fusion of cells beyond the taxonomic family,

that overcome natural physiological reproductive or recombination barriers and that are not techniques used in traditional breeding and selection. [Cartagena Protocol on Biosafety to the Convention on

Biological Diversity (CBD, 2000)]

monitoring An official ongoing process to verify phytosanitary situations [CEPM,

19961

monitoring survey Ongoing survey to verify the characteristics of a pest population

[FAO, 1995]

national plant protection

organization

Official service established by a government to discharge the functions specified by the **IPPC** [FAO, 1990; formerly plant protection

organization (national)]

natural enemy An organism which lives at the expense of another organism in its

area of origin and which may help to limit the population of that **organism**. This includes **parasitoids**, **parasites**, **predators**, phytophagous organisms and **pathogens** [ISPM 3:1995; revised

ISPM 3:2005]

naturally occurring A component of an **ecosystem** or a selection from a wild population,

not altered by artificial means [ISPM 3:1995]

Pest that is not a quarantine pest for an area [FAO, 1995]

NPPO National plant protection organization [FAO, 1990; ICPM, 2001]

occurrence The presence in an area of a pest officially recognized to be

indigenous or **introduced** and not **officially** reported to have been **eradicated** [FAO, 1990; revised FAO, 1995; ISPM 17:2002; formerly

occur]

official Established, authorized or performed by a sectional plant protection

organization [FAO, 1990]

official control The active enforcement of mandat ry plk tosan ary regulations and

the application of mandatory **onyto anita** procedures with the objective of **eradication** or **consistency of quarantine pests** or for the management of **regulate non-againstine pests** [ICPM, 2001]

organism Any biotic entity capable f epicoaction or replication in its naturally

occurring state [IS w. 195: revised ISPM 3:2005]

outbreak A recently detected pest population, including an incursion, or a

sudden significant acreas of an established **pest** population in an **area**

[FAO, 1995; registed ICPM, 2003]

packaging Macrial used supporting, protecting or carrying a commodity

3PM (0:2004]

parasite An a gar sm which lives on or in a larger organism, feeding upon it

ISPM\.:1995]

parasitoid An insect parasitic only in its immature stages, killing its host in the

process of its development, and free living as an adult [ISPM 3:1995]

pathogen Micro-organism causing disease [ISPM 3:1995]

pathway Any means that allows the entry or spread of a pest [FAO, 1990;

revised FAO, 1995]

pest Any species, strain or biotype of plant, animal or **pathogenic** agent

injurious to **plants** or **plant products**. Note: In the IPPC, plant pest is sometimes used for the term pest [FAO, 1990; revised FAO, 1995;

IPPC, 1997; revised CPM, 2012]

pest categorization The process for determining whether a **pest** has or has not the

characteristics of a quarantine pest or those of a regulated non-

quarantine pest [ISPM 11:2001]

pest diagnosis The process of detection and identification of a **pest** [ISPM 27:2006]

pest free area

An **area** in which a specific **pest** does not **occur** as demonstrated by scientific evidence and in which, where appropriate, this condition is being **officially** maintained [FAO, 1995]

pest free place of production

Place of production in which a specific **pest** does not **occur** as demonstrated by scientific evidence and in which, where appropriate, this condition is being **officially** maintained for a defined period [ISPM 10:1999]

pest free production site

A defined portion of a **place of production** in which a specific **pest** does not **occur** as demonstrated by scientific evidence and in which, where appropriate, this condition is being **officially** maintained for a defined period and that is managed as a separate unit in the same way as a **pest free place of production** [ISPM 10:1999]

pest record

A document providing information concerning the presence or absence of a specific **pest** at a particular location at a certain time, within an **area** (usually a country) under described circumstances [CEPM, 1997]

pest risk (for quarantine
pests)

The probability of **introduction** an **spread** of a **pest** and the magnitude of the associated potent leconomic consequences [ISPM 2:2007]

pest risk (for regulated
non-quarantine pests)

The probability that a **pest** is **plant for planting** affects the **intended use** of those **plants** with an economically unacceptable impact [ISPM 2:2007]

pest risk analysis (agreed interpretation)

The process of evaluation by logical or other scientific and economic evidence to determine weather an **organism** is a **pest**, whether it should be regulated, and the strength of any **phytosanitary measures** to be taken against he and the strength of the scientific and economic evidence to determine weather and the strength of the scientific and economic evidence to determine weather and the scientific and economic evidence to determine weather an **organism** is a **pest**, whether it should be regulated as a scientific and economic evidence to determine weather an **organism** is a **pest**, whether it should be regulated as a scientific and economic evidence to determine weather an **organism** is a **pest**, whether it should be regulated as a scientific and economic evidence to determine we extend the scientific and economic evidence to determine we extend the scientific and economic evidence to determine we extend the scientific and economic evidence to determine we extend the scientific and the scientific and economic evidence to determine the scientific evidence to the scientific economic evidence and economic evidence evidence to the scientific extends the scientific extends the economic evidence evidence

pest risk assessment (for quarantine pests) Evaluation of the probability of the **introduction** and **spread** of a **pest** at a the magnitude of the associated potential economic consequences 1.40 1995 revised ISPM 11:2001; ISPM 2:2007]

pest risk assessment (of regulated nonquarantine pests) Evaluation of the probability that a **pest** in **plants for planting** affects intended use of those **plants** with an economically unacceptable impact [ICPM, 2005]

pest risk management (for quarantine pests)

Evaluation and selection of options to reduce the risk of **introduction** and **spread** of a **pest** [FAO, 1995; revised ISPM 11:2001]

pest risk management (for regulated nonquarantine pests) Evaluation and selection of options to reduce the risk that a **pest** in **plants for planting** causes an economically unacceptable impact on the **intended use** of those **plants** [ICPM, 2005]

pest status (in an area)

Presence or absence, at the present time, of a **pest** in an **area**, including where appropriate its distribution, as **officially** determined using expert judgement on the basis of current and historical **pest records** and other information [CEPM, 1997; revised ICPM, 1998]

PFA

Pest free area [FAO, 1995; revised ICPM, 2001]

phytosanitary action

An **official** operation, such as **inspection**, **testing**, **surveillance** or **treatment**, undertaken to implement **phytosanitary measures** [ICPM, 2001; revised ICPM, 2005]

phytosanitary certificate An official paper document or its official electronic equivalent,

consistent with the model certificates of the IPPC, attesting that a consignment meets phytosanitary import requirements[FAO, 1990;

revised CPM, 2012]

phytosanitary certification Use of **phytosanitary procedures** leading to the issue of a **phytosanitary certificate** [FAO, 1990]

phytosanitary import requirements

Specific **phytosanitary measures** established by an importing country concerning **consignments** moving into that country [ICPM, 2005]

phytosanitary legislation Basic laws granting legal authority to a national plant protection

organization from which phytosanitary regulations may be drafted

[FAO, 1990; revised FAO, 1995]

phytosanitary measure
(agreed interpretation)

Any **legislation**, **regulation** or **official** procedure having the purpose to prevent the **introduction** or **spread** of **quarantine pests**, or to limit the economic impact of **regulated non-quarantine pests** [FAO, 1995; revised IPPC, 1997; ICPM, 2002]

The agreed interpretation of the term phytosanitary measure accounts for the relationship of phytosanitary measures to regulated non-quarantine pests. This relationship is not adequately reflected in the definition found in Article II of the IPPC (1984).

phytosanitary procedure

Any official method for implementing phytosanitary measures including the performance of inspections, tests, surveillance or treatments in connection of the regulated pests [FAO, 1990; revised FAO, 1995; CEPLA, 1994, IC. M, 2001; ICPM, 2005]

phytosanitary regulation

Official rule to prevent the introduction or spread of quarantine pests, or to limit is accommic impact of regulated non-quarantine pests, sincluding establishment of procedures for phytosanitary certification. F. O, 1990; revised FAO, 1995; CEPM, 1999; ICPM, 2001

phytosanitary security (of a consignment) May tenant of the **integrity** of a **consignment** and prevention of its **nfest. In** and **contamination** by **regulated pests**, through the lightening of appropriate **phytosanitary measures** [CPM, 2009]

place of production

Any premises or collection of **fields** operated as a single production or farming unit. This may include production sites which are separately managed for phytosanitary purposes [FAO, 1990; revised CEPM, 1999]

plant products

Unmanufactured material of **plant** origin (including **grain**) and those manufactured products that, by their nature or that of their processing, may create a risk for the **introduction** and **spread** of pests [FAO, 1990; revised IPPC, 1997; formerly plant product]

plant protection organization (national) See national plant protection organization

plant quarantine

All activities designed to prevent the **introduction** or **spread** of **quarantine pests** or to ensure their **official control** [FAO, 1990; revised FAO, 1995]

planting (including

replanting)

Any operation for the placing of **plants** in a **growing medium**, or by grafting or similar operations, to ensure their subsequent growth,

reproduction or propagation [FAO, 1990; revised CEPM,1999]

plants

Living plants and parts thereof, including **seeds** and **germplasm** [FAO, 1990; revised IPPC, 1997]

plants for planting

Plants intended to remain planted, to be planted or replanted [FAO,

1990]

plants in vitro

A **commodity class** for **plants** growing in an aseptic medium in a closed container [FAO, 1990; revised CEPM, 1999; ICPM, 2002; formally plants in tique cultural

formerly plants in tissue culture]

point of entry

Airport, seaport or land border point **officially** designated for the importation of **consignments**, and/or entrance of passengers [FAO, 1995]

post-entry quarantine

Quarantine applied to a consignment after try [FAO, 1995]

PRA

Pest risk analysis [FAO, 1995; revised CPM, 2011]

PRA area

Area in relation to which a **pet risk and ves** is conducted [FAO, 1995]

practically free

Of a **consignment**, **field**, or **place o conduction**, without **pests** (or a specific **pest**) in number of the consistent with good cultural and handling practices employed the production and marketing of the **commodity** [FAA, 1990; revised FAO, 1995]

pre-clearance

Phytosanitary certification and/or clearance in the country of origin, performed by or under the regular supervision of the national place protects organization of the country of destination [FAO, 190; revised FAO, 1995]

predator

A in ture enemy that preys and feeds on other animal organisms, nore than one of which are killed during its lifetime [ISPM 3:1995]

process load

A volume of material with a specified loading configuration and reated as a single entity [ISPM 18:2003]

processed wood material

Products that are a composite of **wood** constructed using glue, heat and pressure, or any combination thereof [ISPM 15:2002]

prohibition

A **phytosanitary regulation** forbidding the importation or movement of specified **pests** or **commodities** [FAO, 1990; revised FAO, 1995]

protected area

A **regulated area** that an **NPPO** has determined to be the minimum **area** necessary for the effective protection of an **endangered area** [FAO, 1990; omitted from FAO, 1995; new concept from CEPM, 1996]

provisional measure

A **phytosanitary regulation** or procedure established without full **technical justification** owing to current lack of adequate information. A **provisional measure** is subjected to periodic review and full technical justification as soon as possible [ICPM, 2001]

quarantine Official confinement of regulated articles for observation and

research or for further **inspection**, **testing** or **treatment** [FAO, 1990;

revised FAO, 1995; CEPM, 1999]

quarantine area An area within which a quarantine pest is present and is being

officially controlled [FAO, 1990; revised FAO, 1995]

quarantine pest A pest of potential economic importance to the area endangered

thereby and not yet present there, or present but not widely distributed and being **officially controlled** [FAO, 1990; revised FAO, 1995; IPPC

1997]

quarantine station Official station for holding plants or plant products in quarantine

[FAO, 1990; revised FAO, 1995; formerly quarantine station or

facility]

raw wood Wood which has not undergone processing or treatment

[ISPM 15:2002]

re-exported Consignment that has been imported it to a country from which it is then exported. The consignment may be stored split up, combined

then exported. The **consignment** may be stored split up, combined with other **consignments** or have as **pack**, ting changed [FAO, 1990; revised CEPM, 1996; CEPM, 1996, ICPM, 2001; ICPM, 2002;

formerly country of re-expor

reference specimen Specimen, from a population of a specific organism, conserved and

accessible for the purpose defentingation, verification or comparison.

[ISPM 3:2005; re_sed \ M, \ 009]

refusal Forbidding extry of a con Ignment or other regulated article when it

fails to comple with aboosanitary regulations [FAO, 1990; revised

FAO, 1995]

regional plant protection

organization

Av intergovernmental organization with the functions laid down by ticle X of the IPPC [FAO, 1990; revised FAO, 1995; CEPM, 1999;

for erly plant protection organization (regional)]

regional standards standards established by a regional plant protection organization

for the guidance of the members of that organization [IPPC, 1997]

regulated area An area into which, within which or from which plants, plant

products and other regulated articles are subjected to phytosanitary

measures [CEPM, 1996; revised CEPM, 1999; ICPM, 2001]

regulated article Any plant, plant product, storage place, packaging, conveyance,

container, soil and any other **organism**, object or material capable of harbouring or spreading **pests**, deemed to require **phytosanitary measures**, particularly where international transportation is involved

[FAO, 1990; revised FAO, 1995; IPPC, 1997]

regulated nonquarantine pest whose presence in plants for planting affects the intended use of those plants with an economically unacceptable

the **intended use** of those **plants** with an economically unacceptable impact and which is therefore regulated within the territory of the

importing contracting party [IPPC, 1997]

regulated pest A quarantine pest or a regulated non-quarantine pest [IPPC, 1997]

release (into the Intentional liberation of an organism into the environment

environment) [ISPM 3:1995]

release (of a Authorization for **entry** after **clearance** [FAO, 1995] **consignment**)

replanting See planting

required response A specified level of effect for a treatment [ISPM 18:2003]

restriction A phytosanitary regulation allowing the importation or movement of

specified **commodities** subject to specific requirements [CEPM, 1996;

revised CEPM, 1999]

RNQP Regulated non-quarantine pest [ISPM 16:2002]

round wood Wood not sawn longitudinally, carrying its natural rounded surface,

with or without bark [FAO, 1990]

RPPO Regional plant protection organization (FA) 1990; revised ICPM,

2001]

sawn wood Wood sawn longitudinally, with without its atural rounded surface

with or without bark [FAO, 19.1]

Secretary of the Commission as of ded pursuant to Article XII

[IPPC, 1997]

seeds A commodity class for planting or intended for planting and

not for consumption or picessing (see grain) [FAO, 1990; revised

ICPM, 2001)

SIT sterile insect technique [ISPM 3:2005]

spread (of a pest) Expansion of a geographical distribution of a pest within an area

AO *19*95

standard Dock per established by consensus and approved by a recognized

body, that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context [FAO, 1995;

ISO/IEC Guide 2:1991 definition

sterile insect An insect that, as a result of a specific treatment, is unable to reproduce

[ISPM 3:2005]

sterile insect technique Method of pest control using area-wide inundative release of sterile

insects to reduce reproduction in a field population of the same species

[ISPM 3:2005]

stored product Unmanufactured plant product intended for consumption or

processing, stored in a dried form (this includes in particular **grain** and

dried fruits and vegetables) [FAO, 1990]

suppression The application of phytosanitary measures in an infested area to

reduce **pest** populations [FAO, 1995; revised CEPM, 1999]

surveillance An official process which collects and records data on pest occurrence

or absence by **survey**, **monitoring** or other procedures [CEPM, 1996]

An **official** procedure conducted over a defined period of time to survey

determine the characteristics of a pest population or to determine which species occur in an area [FAO, 1990; revised CEPM, 1996]

The integration of different risk management measures, at least two of systems approach(es)

> which act independently, and which cumulatively achieve the appropriate level of protection against **regulated pests** [ISPM 14:2002;

revised ICPM, 2005]

technically justified Justified on the basis of conclusions reached by using an appropriate

> pest risk analysis or, where applicable, another comparable examination and evaluation of available scientific information [IPPC,

1997]

test Official examination, other than visual, to determine if pests are

present or to identify **pests** [FAO, 1990]

tolerance level (of a pest) **Incidence** of a **pest** specified as a threshold for action to **control** that

> **pest** or to prevent its **spread** or **introduct** PM, 20091

Presence of a **pest** that is not e d to **establishment** transience

[ISPM 8:1998]

transit See consignment in transit

The principle of making at the international level, transparency availab

> phytosanitary measure rationale [FAO, 1995; revised CEPM, 1999; bas Yorld Trade Organization Agreement on and Phytosanitary Measures (WTO, 1994)] the Application Sanitar

treatment Official proc tilling, **inactivation** or removal of **pests**, or

> for rendering p sts intertile or for devitalization [FAO, 1990, revised

4 15:2002; ISPM 18:2003; ICPM, 2005]

al parameters of a **treatment** which need to be met to achieve treatment schedule butcome (i.e. the killing, **inactivation** or removal of **pests**,

ng pests infertile, or devitalization) at a stated efficacy

8:2007]

The physical examination of plants, plant products, or other visual examination

> **regulated articles** using the unaided eye, lens, stereoscope or microscope to detect pests or contaminants without testing or

processing [ISPM 23:2005]

A commodity class for round wood, sawn wood, wood chips or wood

dunnage, with or without **bark** [FAO, 1990; revised ICPM, 2001]

Wood or wood products (excluding paper products) used in wood packaging material

supporting, protecting or carrying a **commodity** (includes **dunnage**)

[ISPM 15:2002]

This supplement was first adopted by the Third Session of the Interim Commission on Phytosanitary Measures in April 2001.

The first revision of this supplement was adopted by the Seventh Session of the

Commission on Phytosanitary Measures in March 2012.

The supplement is a prescriptive part of the standard.

SUPPLEMENT 1: Guidelines on the interpretation and application of the concepts of "official control" and "not widely distributed"

INTRODUCTION

Scope

This supplement provides guidance on:

- the official control of regulated pests, and
- determination of when a pest is considered to be present but not widely distributed, for the decision on whether a pest qualifies as a quarantine pest.

References

ISPM 1. 2006. Phytosanitary principles for the protection of Nants and the application of phytosanitary measures in international trade. Rome, IP.C, FAO.

ISPM 2. 2007. Framework for pest risk analysis. Rome, IPPC FAST

ISPM 6. 1997. Guidelines for surveillance. Rome, IPPC, AO.

ISPM 8. 1998. Determination of pest status in an area R PPPC, FAO.

ISPM 11. 2004. Pest risk analysis for quarantice pests a cluding analysis of environmental risks and living modified organisms. Rome, IPPC FAO.

Definition

Official control is defined as:

The active enforcement of mandatory physicanitary regulations and the application of mandatory phytosanitary procedures with the ojective of eradication or containment of quarantine pests or for the management of regulated not quarantine pests.

BACKGROUND

The words "present but in widely distributed and being officially controlled" express an essential concept in the definition of quarantine pest. According to that definition, a quarantine pest must always be of potential economic importance to an endangered area. In addition, it must either meet the criterion of not being present in that area or it must meet the combined criteria of being present but not widely distributed and subject to official control.

The *Glossary of phytosanitary terms* defines official as "established, authorized or performed by an NPPO" and control as "suppression, containment or eradication of a pest population". However, for phytosanitary purposes, the concept of *official control* is not adequately expressed by the combination of these two definitions.

The purpose of this supplement is to describe more precisely the interpretation of:

- the concept of official control and its application in practice for quarantine pests that are present in an area as well as for regulated non-quarantine pests, and
- the concept of "present but not widely distributed and under official control" for quarantine pests.

"Not widely distributed" is not a term included in the description of pest status listed in ISPM 8:1998.

REQUIREMENTS

1. General Requirements

Official control is subject to ISPM 1:2006, in particular the principles of non-discrimination, transparency, equivalence of phytosanitary measures and pest risk analysis.

1.1 Official control

Official control includes:

- eradication and/or containment in the infested area(s)
- surveillance in the endangered area(s)
- restrictions related to the movement into and within the protected area(s) including phytosanitary measures applied at import.

All official control programmes have elements that are mandatory. At minimum, programme evaluation and pest surveillance are required in official control programmes to determine the need for and effect of control to justify phytosanitary measures applied at import for the same purpose. Phytosanitary measures applied at import should be consistent with the principle of non-discrimination (see section 2.2 below).

For quarantine pests, eradication and containment may have a element of appression. For regulated non-quarantine pests, suppression may be used to avoid unaccept ale economic impact as it applies to the intended use of plants for planting.

1.2 Not widely distributed

"Not widely distributed" is a concept referring to a part's accurrence and distribution within an area. A pest may be categorized as present and wilely distributed in an area or not widely distributed, or absent. In pest risk analysis (PRA), the extensination of whether a pest is not widely distributed is carried out in the pest categorization step. It ansies a means that a pest is not expected to establish and therefore is not relevant to the concept of "not widely distributed".

In the case of a quarantine per that is present but not widely distributed, the importing country should define the infested area(s) and the endangered area(s). When a quarantine pest is considered not widely distributed, this reads that the test is limited to parts of its potential distribution and there are areas free from the test that are a risk of economic loss from its introduction or spread. These endangered areas do not clear to be contiguous but may consist of several distinct parts. In order to justify the statement of the pest being not widely distributed, a description and delimitation of the endangered areas should be made available if requested. There is a degree of uncertainty attached to any categorization of distribution. The categorization may also change over time.

The area in which the pest is not widely distributed should be the same as the area for which the economic impact applies (i.e. the endangered area) and where the pest is under or being considered for official control. The decision that a pest is a quarantine pest, including consideration of its distribution, and placing that pest under official control, is typically made with respect to an entire country. However, in some instances it may be more appropriate to regulate a pest as a quarantine pest in parts of a country rather than in the whole country. It is the potential economic importance of the pest for those parts that has to be considered in determining phytosanitary measures. Examples of when this may be appropriate are countries whose territories include one or more islands or other cases where there are natural or artificially created barriers to pest establishment and spread, such as large countries in which specified crops are restricted by climate to well-defined areas.

1.3 Decision to apply official control

A national plant protection organization (NPPO) may choose whether or not to officially control a pest of potential economic importance that is present but not widely distributed, taking into account

relevant factors from PRA, for example the costs and benefits of regulating the specific pest, and the technical and logistical ability to control the pest within the defined area. If the pest is not subjected to official control, it does not then qualify as a quarantine pest.

2. Specific Requirements

The specific requirements to be met relate to pest risk analysis, technical justification, non-discrimination, transparency, enforcement, mandatory nature of official control, area of application, and NPPO authority and involvement in official control.

2.1 Technical justification

Domestic requirements and phytosanitary import requirements should be technically justified and result in non-discriminatory phytosanitary measures.

Application of the definition of a quarantine pest requires knowledge of potential economic importance, potential distribution and official control programmes (ISPM 2:2007). The categorization of a pest as present and widely distributed or present but not widely distributed is determined in relation to its potential distribution. This potential distribution represent the areas where the pest could become established if given the opportunity, i.e. its hosts are d environmental factors such as climate and soil are favourable. ISPM 11:2004 provide on the factors to be uidanc considered in assessing the probability of establishment and spread conducting a pest risk analysis. In the case of a pest that is present but not wide e assessment of potential distr uted) economic importance should relate to the areas where the lished. ot est

Surveillance should be used to determine the distribution of a pest an area as a basis for the further consideration of whether the pest is not widely dis outea. SPM 6:1997 provides guidance on surveillance, and includes provisions on transp Bio gical factors such as pest life cycle, means ency of dispersal and rate of reproduction may nfluence the design of surveillance programmes, the in the categorization of a pest as not widely interpretation of survey data and the level of onfiden distributed. The distribution of a pest in an a static condition. Changing conditions or new area f whether a pest is not widely distributed. information may necessitate reconsi ation

2.2 Non-discrimination

The principle of non-discrimential in particular, requirements for imports should not be more stringent than the effect of official antrol or an importing country. There should therefore be consistency between domestic requirements and phytosanitary import requirements for a defined pest:

- Import requirements would not be more stringent than domestic requirements.
- Domestic and import requirements should be the same or have an equivalent effect.
- Mandatory elements of domestic and import requirements should be the same.
- The intensity of inspection of imported consignments should be the same as equivalent processes in domestic control programmes.
- In the case of non-compliance, the same or equivalent phytosanitary actions should be taken on imported consignments as are taken domestically.
- If a tolerance level is applied within a domestic official control programme, the same tolerance level should be applied to equivalent imported material. In particular, if no action is taken in the domestic official control programme because the pest incidence does not exceed the tolerance level concerned, then no action should be taken for an imported consignment if the pest incidence does not exceed that same tolerance level. Compliance with import tolerance levels is generally determined by inspection or testing at entry, whereas compliance with the tolerance level for domestic consignments should be determined at the last point where official control is applied.

- If downgrading or reclassifying is permitted within a domestic official control programme, similar options should be available for imported consignments.

2.3 Transparency

Domestic requirements for official control and the phytosanitary import requirements should be documented and made available, on request.

2.4 Enforcement

The domestic enforcement of official control programmes should be equivalent to the enforcement of phytosanitary import requirements. Enforcement should include:

- a legal basis
- operational implementation
- evaluation and review
- phytosanitary action in the case of non-compliance.

2.5 Mandatory nature of official control

Official control is mandatory in the sense that all persons involved are legally bound to perform the actions required. The scope of official control programmes for quarantine pests is completely mandatory (e.g. procedures for eradication campaigns), whereas the slope for regulated non-quarantine pests is mandatory only in certain circumstances (e.g. official certification programmes).

2.6 Area of application

An official control programme can be applied at national submissional or local area level. The area of application of official control measures should be specified. Any phytosanitary import requirements should have the same effect as the domestic requirements for official control.

2.7 NPPO authority and involvement in official control

Official control should:

- be established or recognized by the contracting party or the NPPO under appropriate legislative authority
- be performed, map and, so servised or, at minimum, audited/reviewed by the NPPO
- have enforcement assized by the contracting party or the NPPO
- be modified, tern vated or rose official recognition by the contracting party or the NPPO.

Responsibility and accountability for official control programmes rests with the contracting party. Agencies other than the NPPO may be responsible for aspects of official control programmes, and certain aspects of official control programmes may be the responsibility of subnational authorities or the private sector. The NPPO should be fully aware of all aspects of official control programmes in its country.

This supplement was adopted by the Fifth Session of the Interim Commission on Phytosanitary Measures in April 2003.

The supplement is a prescriptive part of the standard.

SUPPLEMENT 2: Guidelines on the understanding of *potential economic importance* and related terms including reference to environmental considerations

1. Purpose and Scope

These guidelines provide the background and other relevant information to clarify *potential economic importance* and related terms, so that such terms are clearly understood and their application is consistent with the International Plant Protection Convention (IPPC) and the International Standards for Phytosanitary Measures (ISPMs). These guidelines also show the application of certain economic principles as they relate to the IPPC's objectives, in particular in protecting uncultivated/unmanaged plants, wild flora, habitats and ecosystems with respect to invasive alien species that are pests.

These guidelines clarify that the IPPC:

- can account for environmental concerns in economic terms using monetary or non-monetary values
- asserts that market impacts are not the sole indicator of pest impacts.
- maintains the right of contracting parties to adopt phytosanitals measures with respect to pests for which the economic damage caused to plants, plants roducts or ecosystems within an area cannot be easily quantified.

They also clarify, with respect to pests, that the scope of he IP. C co ers the protection of cultivated plants in agriculture, horticulture and forestry, uncultivated/unmanaged plants, wild flora, habitats and ecosystems.

2. Background

The IPPC has historically maintained hat we adverse consequences of pests, including those concerning uncultivated/unmanaged plants wild flora, habitats and ecosystems, are measured in economic terms. References to the terms economic effects, economic impacts, potential economic importance and economically pracceptable impact and the use of the word economic in the IPPC and in ISPMs has resulted in some miscanderstanding of the application of such terms and of the focus of the IPPC.

The scope of the Converter applies to the protection of wild flora resulting in an important contribution to the constraint of biological diversity. However, it has been misinterpreted that the IPPC is only commercially focused and limited in scope. It has not been clearly understood that the IPPC can account for environmental concerns in economic terms. This has created issues of consistency with other agreements, including the Convention on Biological Diversity and the Montreal Protocol on Substances that Deplete the Ozone Layer.

3. Economic Terms and Environmental Scope of the IPPC and ISPMs

The economic terms found in the IPPC and ISPMs may be categorized as follows.

Terms requiring judgement to support policy decisions:

- potential economic importance (in the definition for quarantine pest)
- economically unacceptable impact (in the definition for regulated non-quarantine pest)
- economically important loss (in the definition for endangered area).

Terms related to evidence that supports the above judgements:

- limit the economic impact (in the definition for phytosanitary regulation and the agreed interpretation of phytosanitary measure)
- economic evidence (in the definition for pest risk analysis)

- cause economic damage (in Article VII.3 of the IPPC, 1997)
- direct and indirect *economic impacts* (in ISPM 11:2004 and ISPM 16:2002)
- economic consequences and potential economic consequences (in ISPM 11:2004)
- commercial consequences and non-commercial consequences (in ISPM 11:2004).

ISPM 11:2004 notes in section 2.1.1.5 with respect to pest categorization, that there should be a clear indication that the pest is likely to have an unacceptable economic impact, including environmental impact, in the PRA area. Section 2.3 of the standard describes the procedure for assessing potential economic consequences of a pest introduction. Pest effects may be considered to be direct or indirect. Section 2.3.2.2 addresses analysis of commercial consequences. Section 2.3.2.4 provides guidance on the assessment of the non-commercial and environmental consequences of pest introduction. It acknowledges that certain types of effects may not apply to an existing market that can be easily identified, but it goes on to state that the impacts could be approximated with an appropriate nonmarket valuation method. This section notes that if a quantitative measurement is not feasible, then this part of the assessment should at least include a qualitative analysis and an explanation of how the information is used in the PRA. Environmental or other undesirable effects of control measures are covered in section 2.3.1.2 (Indirect pest effects) as part of the apolysis of potential economic of cost-diffectiveness, feasibility consequences. Where a pest risk is found to be unacceptable, secti selection of pest risk management options, including measurement and least trade restrictiveness.

In April 2001 the ICPM recognized that under the IPPC set sting mandate, to take account of environmental concerns, further clarification should include onsideration of the following five proposed points relating to potential environmental risks of pests:

- reduction or elimination of endangered (or threate d) native plant species
- reduction or elimination of a keystone lant species a species which plays a major role in the maintenance of an ecosystem)
- reduction or elimination of a plant species, which is a major component of a native ecosystem
- causing a change to plant iological diversity in such a way as to result in ecosystem destabilization
- resulting in control, adication or management programmes that would be needed if a quarantine pest was introduced and impacts of such programmes (e.g. pesticides, non-indigenous predators of partitle) on biological diversity.

Thus it is clear, with respect to plant pests, that the scope of the IPPC covers the protection of cultivated plants in agric ture, horticulture and forestry, uncultivated/unmanaged plants, wild flora, habitats and ecosystems.

4. Economic Considerations in PRA

4.1 Types of economic effect

In PRA, economic effects should not be interpreted to be only market effects. Goods and services not sold in commercial markets can have economic value, and economic analysis encompasses much more than the study of market goods and services. The use of the term *economic effects* provides a framework in which a wide variety of effects (including environmental and social effects) may be analysed. Economic analysis uses a monetary value as a measure to allow policy makers to compare costs and benefits from different types of goods and services. This does not preclude the use of other tools such as qualitative and environmental analyses that may not use monetary terms.

4.2 Costs and benefits

A general economic test for any policy is to pursue the policy if its benefit is at least as large as its cost. Costs and benefits are broadly understood to include both market and non-market aspects. Costs and benefits can be represented by both quantifiable measurements and qualitative measurements.

Non-market goods and services may be difficult to quantify or measure but nevertheless are essential to consider.

Economic analysis for phytosanitary purposes can only provide information with regard to costs and benefits, and does not judge if one distribution is necessarily better than another distribution of costs and benefits of a specific policy. In principle, costs and benefits should be measured regardless to whom they occur. Given that judgements about the preferred distribution of costs and benefits are policy choices, these should have a rational relationship to phytosanitary considerations.

Costs and benefits should be counted whether they occur as a direct or indirect result of a pest introduction or if a chain of causation is required before the costs are incurred or the benefits realized. Costs and benefits associated with indirect consequences of pest introductions may be less certain than costs and benefits associated with direct consequences. Often, there is no monetary information about the cost of any loss that may result from pests introduced into natural environments. Any analysis should identify and explain uncertainties involved in estimating costs and benefits and assumptions should be clearly stated.

5. Application

The following criteria should be met before a pest is deemed to hav potential economic importance:

- a potential for introduction in the PRA area
- the potential to spread after establishment
- a potential harmful impact on plants, for example
 - · crops (for example loss of yield or quality)
 - the environment, for example damage to expystems, habitats or species
 - · some other specified value, for example re-real on, tourism, aesthetics.

As stated in section 3, environmental danage arising from the introduction of a pest, is one of the types of damage recognized by the IPPC. Thus, wan respect to the third criterion above, contracting parties to the IPPC have the right to a pet photosanitary measures even with respect to a pest that only has the potential for environmental damage. It chaction should be based upon a pest risk analysis that includes the consideration of evidence of potential environmental damage. When indicating the direct and indirect impact of pests on the environment, the nature of the harm or losses arising from a pest introduction should be seen ted in the crisk analysis.

In the case of regulate con-quarantine pests, because such pest populations are already established, introduction in an area of concern and environmental effects are not relevant criteria in the consideration of *economically unacceptable impacts* (see ISPM 16:2002 and ISPM 21:2004).

References

ICPM. 2001. Report of the Third Interim Commission on Phytosanitary Measures, Rome, 2–6 April 2001. (Includes Appendix XIII, "Statements of the ICPM Exploratory Open-ended Working Group on Phytosanitary Aspects of GMOs, Biosafety, and Invasive Species, 13–16 June 2000, Rome".) Rome, IPPC, FAO.

IPPC. 1997. International Plant Protection Convention. Rome, IPPC, FAO.

ISPM 11. 2004. Pest risk analysis for quarantine pests, including analysis of environmental risks and living modified organisms. Rome, IPPC, FAO.

ISPM 16. 2002. Regulated non-quarantine pests: concept and application. Rome, IPPC, FAO.

ISPM 21. 2004. Pest risk analysis for regulated non-quarantine pests. Rome, IPPC, FAO.

¹ With respect to the first and second criteria, IPPC (1997) Article VII.3 states that for pests that may not be capable of establishment, measures taken against these pests must be technically justified.

This appendix is for reference purposes only and is not a prescriptive part of the standard.

APPENDIX TO SUPPLEMENT 2

This appendix provides additional clarification of some terms used in this supplement.

Economic analysis: It primarily uses monetary values as a measure to allow policy makers to compare costs and benefits from different types of goods and services. It encompasses more than the study of market goods and services. Economic analysis does not prevent the use of other measures that do not use a monetary value; for example, qualitative or environmental analysis.

Economic effects: This includes market effects as well as non-market effects, such as environmental and social considerations. Measurement of the economic value of environmental effects or social effects may be difficult to establish. For example, the survival and well-being of another species or the value of the aesthetics of a forest or a jungle. Both qualitative and quantitative worth may be considered in measuring economic effects.

Economic impacts of plant pests: This includes both market measures as well as those consequences that may not be easy to measure in direct economic terms, but which represent a loss or damage to cultivated plants, uncultivated plants or plant products.

Economic value: This is the basis for measuring the cost of the affect of charges (e.g. in biodiversity, ecosystems, managed resources or natural resources) on human welfare. You and services not sold in commercial markets can have economic value. Determining economic value does not prevent ethical or altruistic concerns for the survival and well-leing of other species based on cooperative behaviour.

Qualitative measurement: This is the valuation of plitter or characteristics in other than monetary or numeric terms.

Quantitative measurement: This is the valuation of challities or characteristics in monetary or other numeric terms.

This appendix was adopted by the Fourth Session of the Commission on Phytosanitary Measures in March–April 2009.

The appendix is for reference purposes only and is not a prescriptive part of the standard.

APPENDIX 1: Terminology of the Convention on Biological Diversity in relation to the *Glossary of phytosanitary terms*

1. Introduction

Since 2001, it has been made clear that the scope of the IPPC extends to risks arising from pests that primarily affect the environment and biological diversity, including harmful plants. The Technical Panel for the Glossary, which reviews ISPM 5 (*Glossary of phytosanitary terms*, hereinafter referred to as the Glossary), therefore examined the possibility of adding new terms and definitions to the standard to cover this area of concern. In particular, it considered the terms and definitions that are in use by the Convention on Biological Diversity (CBD)*, with a view to adding them to the Glossary, as has previously been done in several cases for the terminology of other intergovernmental organizations.

However, study of the terms and definitions available from the CBD has shown that they are based on concepts different from those of the IPPC, so that similar terms are given distinctly different meanings. The CBD terms and definitions could not accordingly be used directly in the Glossary. It was decided instead to present these terms and definitions in the present Ap endix to the Glossary, providing explanations of how they differ from IPPC terminology.

This Appendix is not intended to provide a clarification of the cope of the CBD, nor of the scope of the IPPC.

2. Presentation

In relation to each term considered, the CBD definition is first provided. This is placed alongside an "Explanation in IPPC context", in which a usual, Cossary terms (or derived forms of Glossary terms) are shown in **bold**. These explanations key also include CBD terms, in which case these are also in **bold** and followed by "(CBD)". The explanations constitute the main body of this Appendix. Each is followed by notes, providing further carification of some of the difficulties.

3. Terminology

3.1 "Alien species

CBD definition	Explanation in IPPC context
introduced outside its natural past ¹ or present distribution; includes any part, gametes, seeds,	An alien ² species (CBD) is an individual ³ or population, at any life stage, or a viable part of an organism that is non-indigenous to an area and that has entered ⁴ by human agency ⁵ into the area

Notes:

¹ The qualification concerning "past and present" distribution is not relevant for IPPC purposes, since the IPPC is concerned only with existing situations. It does not matter that the species was present in the past if it is present now. The word "past" in the CBD definition presumably allows for the reintroduction of a species into an area where it has recently become extinct and thus a reintroduced species would presumably not be considered an alien species.

^{*} The terms and definitions discussed in this document have resulted from discussion on invasive alien species by the Parties of the Convention on Biological Diversity (Secretariat of the Convention on Biological Diversity).

- ² "Alien" refers only to the location and distribution of an organism compared with its natural range. It does not imply that the organism is harmful.
- ³ The CBD definition emphasizes the physical presence of individuals of a species at a certain time, whereas the IPPC concept of occurrence relates to the geographical distribution of the taxon in general.
- ⁴ For CBD purposes, an alien species is already present in the **area** that is not within its native distribution (see **Introduction** below). The IPPC is more concerned with organisms that are not yet present in the area of concern (i.e. quarantine pests). The term "alien" is not appropriate for them, and terms such as "exotic", "non-indigenous" or "non-native" have been used in ISPMs. To avoid confusion, it would be preferable to use only one of these terms, in which case "non-indigenous" would be suitable, especially as it can accompany its opposite "indigenous". "Exotic" is not suitable because it presents translation problems.
- ⁵ A species that is non-indigenous and has entered an **area** through natural means is not an a**lien species** (**CBD**). It is simply extending its natural range. For **IPPC** purposes, such a species could still be considered as a potential **quarantine pest**.

3.2 "Introduction"

CBD definition **Explanation** The movement by human agency, indirect or The entr ecies nto an area where it is nondirect, of an alien species⁶ outside of its movement by human agency, indigeno s, thro natural range (past or present). eithe from an area where the species is or indirectly⁸ (by successive movement movement can be either within a country or between countries or areas beyond national where the species is indigenous through from jurisdiction⁷ one or s veral areas where it is not)

Notes:

⁶ The CBD definition suggests that **int. Jucton (CBD)** concerns an **alien species (CBD)**, and thus a species that has already entered the area. However, it may be supposed, on the basis of other documents made available by CBD, that this is not so, and that a non-indigenous species entering for the first time is being **introduce (CBL)**. For CBD, a species can be **introduced (CBD)** many times, but for IPPC a species once stable and, cannot be **introduced** again.

⁷ The issue of "areas be, ad national jurisdiction" is not relevant for the IPPC.

In the case of indirect movement, it is not specifically stated in the definition whether all the movements from one **area** to another must be **introductions** (**CBD**) (i.e. by human agency, intentional or unintentional), or whether some can be by natural movement. This question arises, for example, where a species is **introduced** (**CBD**) into one **area** and then moves naturally to an adjoining **area**. It seems that this may be considered as an indirect **introduction** (**CBD**), so that the species concerned is an **alien species** (**CBD**) in the adjoining area, despite the fact that it **entered** it naturally. In the IPPC context, the intermediate country, from which the natural movement occurs, has no obligation to act to limit the natural movement, though it may have obligations to prevent intentional or unintentional **introduction** (**CBD**) if the importing country concerned establishes corresponding **phytosanitary measures**.

3.3 "Invasive alien species"

CBD definition	Explanation in IPPC context
An alien species whose introduction and/or spread threaten ⁹ biological diversity ^{10, 11}	An invasive ¹² alien species (CBD) is an alien species (CBD) that by its establishment or spread has become injurious to plants ¹³ , or that by risk analysis (CBD) ¹⁴ is shown to be potentially injurious to plants

Notes:

- ⁹ The word "threaten" does not have an immediate equivalent in IPPC language. The IPPC definition of a **pest** uses the term "injurious", while the definition of a **quarantine pest** refers to "economic importance". ISPM 11:2004 makes it clear that **quarantine pests** may be "injurious" to **plants** directly, or indirectly (via other components of ecosystems), while Supplement 2 of the Glossary explains that "economic importance" depends on a harmful impact on crops, or on the environment, or on some other specific value (recreation, tourism, aesthetics).
- ¹⁰ **Invasive alien species (CBD)** threaten "biological diversity". This is no an IPPC term, and the question arises whether it has a scope corresponding to that of the IP.C. "Biological diversity" would then have to be given a wide meaning, extending to the integrity of critivated plants in agroecosystems, non-indigenous **plants** that have been imported an **planted** for forestry, amenity or habitat management, and indigenous **plants** in any **habitat**, we ther "han-made" or not. The **IPPC** does protect **plants** in any of these situations, but it is not clear of the the scope of the CBD is as wide; some definitions of "biological diversity" take any theorems.
- On the basis of other documents made available by CB invasive alien species may also threaten "ecosystems, habitats or species".
- ¹² The CBD definition and its explanation once who whole term **invasive alien species** and do not address the term "invasive" as such
- ¹³ The context of the IPPC is the protection of **plants**. It is clear that there are effects on biological diversity that do not concert **plants**, and so there are **invasive alien species (CBD)** that are not relevant to the **IPPC**. The IPPC is also concerned with **plant products**, but it is not clear to what extent the CBD considers **plant products** as a component of biological diversity.
- ¹⁴ For the IPPC, **organit as** that have never entered the **endangered area** can also be considered as potentially injurious to **plants**, as a result of **pest risk analysis**.

3.4 "Establishment"

CBD definition	Explanation in IPPC context
The process ¹⁵ of an alien species in a new habitat successfully producing viable offspring ¹⁶ with a likelihood of continued survival	The establishment of an alien species (CBD) in a habitat in the area it has entered , by successful reproduction

Notes:

- ¹⁵ **Establishment (CBD)** is a process, not a result. It seems that a single generation of reproduction can be **establishment (CBD)**, provided the offspring have a likelihood of continued survival (otherwise there would be a comma after "offspring"). The CBD definition does not express the **IPPC** concept of "perpetuation for the foreseeable future".
- ¹⁶ It is not clear how far "offspring" applies to **organisms** that propagate themselves vegetatively (many **plants**, most fungi, other micro-organisms). By using "perpetuation", the **IPPC** avoids the

question of reproduction or replication of individuals altogether. It is the species as a whole that survives. Even the growth of long-lived individuals to maturity could be considered to be perpetuation for the foreseeable future (e.g. plantations of a non-indigenous **plant**).

3.5 "Intentional introduction"

CBD definition	Explanation in IPPC context
· ·	Deliberate movement of a non-indigenous species into an area , including its release into the environment ¹⁸

Notes:

3.6 "Unintentional introduction"

CBD definition	Explanation in VPC context
All other introductions which are not intentional	Entry of a ken-ir agenous species with a traded consignment, wich is infests or contaminates, or by some other human agency including pathway sate passengers' baggage, vehicles, an isian caterways ¹⁹

Notes:

3.7 "Risk analysis"

CBD definition	Explanation in IPPC context

Notes:

¹⁷ The "and/or" of the CBD definition is difficult to understand.

¹⁸ Under most phytosanitary import regulatory systems the intentional introduction of regulated pests is prohibited.

The prevention of unintentional introductors a regulated pests is an important focus of phytosanitary import regulatory systems.

²⁰ It is not clear what kinds of consequences are considered.

²¹ It is not clear at what stages in the process of **risk analysis (CBD)** socio-economic and cultural considerations are taken into account (during assessment, or during management, or both). No explanation can be offered in relation to ISPM 11:2004 or Supplement 2 of ISPM 5.

²² This explanation is based on the IPPC definitions of **pest risk assessment** and **pest risk management**, rather than on that of **pest risk analysis**.

²³ It is unclear whether **risk analysis (CBD)** may be conducted prior to **entry**, in which case the probability of **introduction** may also need to be assessed, and measures evaluated and selected to reduce the risk of **introduction**. It may be supposed (on the basis of other documents made available by CBD) that **risk analysis (CBD)** can identify measures restricting further introductions, in which case it relates more closely to **pest risk analysis**.

4. Other concepts

The CBD does not propose definitions of other terms, but does use a number of concepts that do not seem to be considered in the same light by the IPPC and the CBD, or are not distinguished by the IPPC. These include:

- border controls
- quarantine measures
- burden of proof
- natural range or distribution
- precautionary approach
- provisional measures
- control
- statutory measures
- regulatory measures
- social impact
- economic impact.

5. References

CBD. 1992. Convention on Biological Diversity. Montr al, CBD.

CBD. Glossary of terms (available at htt://www.cld.int/invasive/terms.shtml, accessed November 2008).

ISPM 11. 2004. Pest risk analysis for query tine pests including analysis of environmental risks and living modified organists. Robe, IPPC, FAO.



