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Scope

The *IPPC style guide for standards and meeting documents* has been developed to satisfy a demand for consistency in content, structure, semantics, terminology and presentation of IPPC standard setting documents. The style guide seeks to combine all these subjects into a quickly accessible reference and guidance tool.

This style guide should be used as a reference tool before and during writing reports, meeting documents, draft ISPMs and specifications, just as it should be followed strictly when editing and finalizing these same documents.

It may furthermore be useful to apply the style guide to other reports and meeting documents (e.g. Commission on Phytosanitary Measures (CPM), Bureau, Strategic Planning Group (SPG), capacity development, information exchange) to present them with a consistent appearance recognizable as that of the IPPC.

The intended users are the experts who prepare documents for the IPPC and the IPPC Secretariat (hereafter “Secretariat”) staff.

Reference is made to the FAO style guide ([FAO style](#)) for guidance on the general FAO rules and to the IPPC standard operating procedures (SOPs) for guidance on specific steps and rules related to the processes of the Secretariat.

We urge the users of the style guide to remember that most of the users of IPPC documents do not have English as their mother tongue and it is therefore imperative that a clear, simple and concise language is used.

Introduction

The style guide consists of two parts.

Part 1 deals with the content and structure of IPPC standard setting documents. The user will be able to find guidance on the usual content of draft and adopted ISPMs and specifications, as well as guidance on their structure. Information is also given on reports and meeting documents prepared by the Secretariat, and what order the sections and attached documents (annexes, appendixes, etc.) should follow. This guidance is complemented by annotated templates that should be used as a basis for drafting.

Experts and Secretariat staff should refer to this part before initiating and during their work.

Part 2 guides the user on editorial matters related to terminology, references, grammar and much more.

Experts and editors should refer to this part during their work.

Attention is also drawn to the [IPPC Procedural Manual for Standard Setting](#) where additional guidance on procedures can be found.

Abbreviations and acronyms used in this document

ALPP	area of low pest prevalence
CBD	Convention on Biological Diversity
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CPM	Commission on Phytosanitary Measures
CRP	Conference room paper (presented to meetings)
DP	diagnostic protocol
EDG	expert drafting group
EPPO	European and Mediterranean Plant Protection Organization
EWG	expert working group
FAO	Food and Agriculture Organization of the United Nations
FAO style	FAO house style for documents and publications
INF	Information document (presented to meetings)
IPP	International Phytosanitary Portal (https://www.ippc.int)
IPPC	International Plant Protection Convention
ISO	International Organization for Standardization
ISPM	International Standard for Phytosanitary Measures
Mac	Apple Macintosh computer
NPPO	national plant protection organization
OCS	Online Comment System
PCE	phytosanitary capacity evaluation
PFA	pest free area
PRA	pest risk analysis
PT	phytosanitary treatment
RPPO	regional plant protection organization
SC	Standards Committee
SC-7	Standards Committee Working Group
SOP	standard operating procedure
SPG	Strategic Planning Group
SPS Agreement	World Trade Organization Agreement on the Application of Sanitary and Phytosanitary Measures
TPDP	Technical Panel on Diagnostic Protocols
TPG	Technical Panel for the Glossary
URL	uniform resource locator, used for website addresses

Additional resources

These are sources referred to in the style guide and they are hyperlinked for easy access to the web pages and documents.

[Adopted ISPMs](#) (all adopted standards are available for download in PDF via this link)

[Annotated Glossary](#)

[Annotated template for adopted ISPMs](#)

[Annotated template for draft ISPMs](#)

[Annotated template for draft specifications](#)

[FAO style](#)

[International Code of Nomenclature for Algae, Fungi, and Plants](#) (formerly International Code of Botanical Nomenclature)

[International Code of Nomenclature for Cultivated Plants](#)

[International Code of Nomenclature of Prokaryotes](#) (formerly International Code of Nomenclature of Bacteria)

[International Code of Zoological Nomenclature](#)

[International Committee on Taxonomy of Viruses](#)

[International Plant Protection Convention](#)

[IPPC Procedure Manual for Standard Setting](#)

[List of adopted ISPMs](#)

PART 1:

CONTENT AND STRUCTURE

This part describes the content and structure of documents produced regularly by the IPPC, namely:

- Specifications
- ISPMs
- Committee and Secretariat reports.

1. Status Box and Publication History

To keep track of changes to a draft specification or draft ISPM, a status box is added on the first page of the draft containing details on the document's origins, reviews and revisions, and other major steps of its development. The status box is included in drafts and translated so that contracting parties may inform the Secretariat of any errors, and be informed about the development of the draft. For this reason, background documents for consultation periods are no longer prepared.

After adoption of an ISPM, the status box is transformed into a publication history, which contains only the major steps of the standard's development.

For phytosanitary treatments (PTs) and diagnostic protocols (DPs) the status box provides a record of the expert input and of consultations on the topic.

Abbreviations and acronyms describing IPPC meetings and document stages (e.g. TPDP, SC, OCS) should be spelled out upon first mention (and again at first mention in the text of the document), with the exception of CPM, IPPC and ISPM, which do not need to be spelled out.

2. Specifications

Specifications are the first stage in the process of preparing the text of a new standard.

Stewards of topics prepare draft specifications (based on the drafts received during a call for topics), which are reviewed by the Standards Committee (SC) and go through a consultative process. A specification will usually be around two to three pages long including the first (cover) page. The specification for a standard outlines what the expert working group (EWG) that drafts the standard will need to include in the standard, and the tasks that should be gone through during drafting. Some of these tasks are included in all specifications and are presented in standard wording that should not be modified.

The SC approves the specification and the Secretariat assigns it a number, formats it and publishes it on the International Phytosanitary Portal (IPP).

Use the [Annotated template for draft specifications](#) for guidance on the content and structure of draft specifications.

2.1 Guidance for expert drafting groups on the task pertaining to biodiversity and the environment¹

The SC provided guidance on how expert drafting groups (EDGs) should consider the task related to biodiversity and environmental considerations, which is systematically included in specifications for ISPMs.

One way to evaluate the possible effect of the ISPM is to consider some or all of the questions below, presented to help the EDG understand the task. It is not expected that experts will respond to all the questions but they should consider them and, if necessary, discuss them within the group. Note that the substance of the draft ISPM is as described in the scope and other tasks of the specification, whereas this specific task is being introduced to all EDGs in order that possible connections to biodiversity and environmental issues are identified. EDG members have generally not been selected on the basis of their knowledge of biodiversity and environmental issues.

Once the ISPM has been adopted, its protective value (positive impact on biodiversity) will depend on the extent to which it will regulate pests that pose a greater risk to native ecosystems, and the pathways by which such pests are transported. One way to evaluate whether the ISPM will have a greater or lesser protective value to biodiversity and the environment is to answer the following questions:

- Do the plant pests targeted by the ISPM have a wide range of suitable habitats (pests that are plants) or wide host range that includes significant numbers of plant species that are components of native ecosystems?
- Are the “at-risk” native ecosystems widespread? Or, to the contrary, are they extremely limited in size or location? Both circumstances warrant special mention.
- Do the host plants or native ecosystems perform unique ecosystem functions?
- How would the ISPM, by preventing spread of a pest damaging to plants in the natural environment:
 - protect the environment from the loss of species diversity?
 - alter the species richness or species composition of habitats in the study area?
 - protect ecosystems from the loss of viability and function as a result of pest invasions?
- Would the phytosanitary measures or recommendations in the ISPM affect the biophysical environment directly or indirectly in such a manner or cause such biological changes that it will increase the risk of extinction of genotypes, cultivars, varieties or populations of species, or increase the chance of loss of habitats or ecosystems? Examples of such alterations include:
 - emissions, effluents or other means of chemical, radiation, thermal or noise emissions in key ecosystems
 - significant changes to water level, quantity or quality
 - significant changes to air quantity or pollution.
- Would either the pest targeted by the phytosanitary measure or the phytosanitary measure itself cause a direct or indirect loss of a population of a species? For example, plants endemic to a particular habitat will not be able to survive if that habitat is destroyed or altered. Examples include:
 - extinction of a population of a localized endemic species of scientific, ecological or cultural value
 - a local loss of varieties, cultivars or breeds of cultivated plants or domesticated animals and their relatives, genes or genomes of social, scientific or economic importance
 - at a less drastic level, the direct or indirect loss of a population of a species that affects the sustainable use of that population or species.

¹ As decided by SC 2013-11.

- Would either the pest targeted by the phytosanitary measure or the phytosanitary measure itself lead, directly or indirectly, to serious damage or total loss of an ecosystem or land-use type, thus leading to:
 - loss of ecosystem services of scientific, ecological or cultural value?
 - a situation in which exploitation of that ecosystem or land-use type becomes destructive or non-sustainable (i.e. the loss of ecosystem services of social or economic value)?
- Will either the pest targeted by the phytosanitary measure or the phytosanitary measure itself change the food chain and interactions that shape the flow of energy and the distribution of biomass within the ecosystem?
- Will either the pest targeted by the phytosanitary measure or the phytosanitary measure itself adversely affect any of the following: protected areas; threatened ecosystems outside protected areas; migration corridors identified as being important for ecological or evolutionary processes; areas known to provide important ecosystem services; or areas known to be habitats for threatened species?
- Would either the pest targeted by the phytosanitary measure or the phytosanitary measure itself allow for or facilitate introduction or spread of invasive alien species that can transform natural habitats and disrupt native species?
- Would the phytosanitary measures or recommendations in the standard result in changes to the access to or rights over biological resources?

[Note: When considering ISPMs that address plant introductions, use “*wide range of suitable habitats*” for pests that are plants and “*wide host range*” for other pests].

3. ISPMs

There are two steps for ISPMs – draft stage and adoption – and some of the content as well as the formatting change between the two. The reason for format differences between draft and final ISPMs is related to their use.

3.1 Draft ISPMs

Draft ISPMs that are presented to the SC for revision have manual paragraph numbering to ensure paragraph numbering does not change during the in-session revision. The drafts are therefore often run through the Online Comment System (OCS), which provides manual paragraph numbering, strips the draft of formatting, presents the draft in a table and places footnotes at the end of the document. Comments during consultation periods are made in the OCS. Drafts presented to the SC via e-decision or to DP expert consultations will have automated paragraph numbering (hence not be run through the OCS).

The content and structure of an ISPM follow a fixed format. The *Introduction* section explains the scope for developing a standard on the specific topic. The *Background* section explains the rationale and history for the development of the standard and should also outline what impact the standard will have on biodiversity and the environment. The section on *Requirements* will provide the main text of the standard; there is no predetermined structure. The standard may have component documents such as supplements, annexes or appendixes (in that order).

Use the [Annotated template for draft ISPMs](#) for guidance on content and structure of draft ISPMs.

3.2 Record keeping

When a standard sets requirements for record keeping, the specific durations should be indicated where necessary, but they do not need to be the same. The durations indicated in existing standards for similar records should be taken into account when deciding on a duration. Where a specific duration does not need to be indicated, it could nevertheless be considered whether general indications related to record keeping should be included. The duration of record keeping may be for an undetermined period, until new data are available, and this may need to be clarified in the standard. Where the justification for

measures relies on records, it may be necessary to maintain these for as long as needed as a justification of the measures².

3.3 Adopted ISPMs

Adopted ISPMs are formatted for publication.

The number of a new standard is allocated by the Secretariat at publication.

The date of adoption by CPM is indicated on the covers of the ISPMs. For revised ISPMs, the date of adoption is the date of adoption of the revision. The previous adoption date is recorded in the publication history and in the *Adoption* section. The date of publication, which may be different from that of adoption, is included on the first page so that version control is facilitated.

Exceptions to this rule are ISPM 27 (DPs) and ISPM 28 (PTs) for which the date will change only if the main text is revised and adopted or modified³ and not if a new protocol or treatment is added.

For supplements, annexes and appendixes, the adoption year is no longer listed in brackets after the title (this representing a change from former IPPC style). Any adoption of supplements, annexes and appendixes should be mentioned in the *Adoption* section and publication history.

Use the [Annotated template for adopted ISPMs](#) for guidance on content and layout of adopted ISPMs.

3.4 Supplements, annexes, appendixes and attachments

The following official criteria for the formation, content and subsequent change of supplements, annexes and appendixes in ISPMs were decided by CPM-1 (see CPM, 2006, Appendix XIII).

The order of component documents after the main text of the standard is: supplements, annexes and appendixes. Component documents are numbered sequentially with Arabic numerals. If there is only one document this is still numbered. Supplements and annexes are prescriptive parts of standards whereas appendixes are not. Some standard setting documents may have attachments. Normally an attachment is not adopted because it does not carry any specific legal value but is attached simply for information.

For references in component documents, see section 15. For use of abbreviations and acronyms in component documents, see section 10.

3.5 Publication of diagnostic protocols and phytosanitary treatments

DPs and PTs are considered ISPMs but are posted individually on the [Adopted Standards](#) page of the IPP.

Each DP and PT must have information in the adoption statement to indicate that it was adopted as an annex to ISPM 27 or ISPM 28, respectively. DPs and PTs have a cover page. They must state the year they were adopted and have a publication history.

3.6 Revoking of standards

When a revised version of an ISPM is adopted, the previous version will be marked “REVOKED” and made available on the IPP⁴. See the [IPPC Procedure Manual for Standard Setting](#) for further information on the mechanism.

When an ISPM is revised, a review of all other ISPMs needs to be undertaken to ensure that any reference to the ISPM under revision is still relevant, thereby ensuring that the old version of the ISPM

² As decided by SC 2013-05, text not edited.

³ SC 2014-11, agenda item 4.3.

⁴ Revoking of standards mechanism as decided by SC 2014-11.

under revision can be revoked. Specifications for ISPMs for revision will therefore include the task to “Review all references to other ISPMs to ensure that they are still relevant and propose consequential changes if necessary.”

4. Committee and Secretariat Documents

4.1 Meeting documents

There are certain mandatory documents to prepare for all standard setting meetings and to include or reference in the report of the meeting (in this order):

Agenda. The draft agenda is posted two months or more before the meeting, and should be updated when significant changes have occurred. The agenda should be thoroughly discussed between the responsible persons for the meeting as the report of the meeting should follow the order of the agenda; the agenda needs to be set up logically and according to how discussions should be held.

The date of updates should be added after the document number in the heading (i.e. it is not revised, only updated). This is always document 1 and will become Appendix 1 of the meeting report.

In order to simplify the structure of agendas and subsequent reports, all meetings should start with *Opening of the meeting*. This agenda point should include:

- Welcome remarks
- Selection of Chairperson and Rapporteur
- Review and adoption of the agenda.

This section shall be followed by *Administrative matters*. This agenda point should include:

- Documents list
- Local information (or virtual tools document)
- Participants list.

Documents list. Lists the documents that are to be discussed in the meeting. Documents presented during the meeting will be added to the list following the meeting when the list is prepared as an appendix. This is always document 2 and will become Appendix 2 of the meeting report.

Participants list. When a membership list is available, this is used to prepare the participants list because it contains all contact details and term information. Members of groups who are not attending are listed after the attending members (but before observers). Observers are listed below members and it should be clearly stated from which institution the person is an observer. Secretariat staff are listed below observers and with only email as contact details. The participants list, which is document 3, should be posted only two times before the meeting, adjusted in the meeting and attached to the report as Appendix 3.

Local information. The host country should provide concise information on the location and venue, transportation, local contact phone numbers, dress requirements, weather, visa, vaccines, currency and any other relevant points of interest to help the participants in their travel to and stay for the meeting.

Discussion papers, reports or other. Reports or papers posted previously (e.g. for another meeting) should be added as links in the agenda and documents list.

Revisions to discussion papers (except the agenda and the documents list) should be named “Rev. X” after the document title.

Conference room papers (CRP) and information documents (INF) follow the same structure, content and formatting style as other discussion papers, depending on the type.

4.2 Meeting reports

Meeting reports are drafted during the meeting and should capture the main discussions and decisions (see the SOP for Report writing for detailed guidance).

The agenda, documents list and participants list should form the first three appendixes of the report of the meeting.

Templates are available from the Secretariat for typical contents of the reports of the SC, SC-7, EWGs, technical panels and the Bureau.

Numbering of headings in the body of the report should be chronological according to the adoption of matters by the meeting. Heading structure should follow that of the agenda of the meeting, but may vary from this if the agenda heading does not purvey the discussions correctly.

Note that:

- Reports do not have an executive summary.
- Reports may refer to restricted work area documents, but should not present links to these because the reports are public.
- Appendixes and annexes in reports should be considered final versions, and therefore not be presented with track changes or highlights.
- Reports are posted in PDF to ensure correct visualization.
- Reports must have paragraph numbering in both draft and final format.
- When more than ten pages, reports must have a table of contents.

5. Technical Drafting Guidance

5.1 General content and structure guidance

Terminology. All drafters of draft specifications and ISPMs should refer to ISPM 5 (*Glossary of phytosanitary terms*) to ensure correct terminology is used⁵. For each concept, use only one term – this applies both to terms that are in ISPM 5 and those that are not (see Guidelines for a consistent ISPM terminology in the [IPPC Procedural Manual for Standard Setting](#)).

Definitions. All definitions for phytosanitary terms are those found in ISPM 5. Some definitions are applicable only to the specific ISPM and not incorporated into ISPM 5. Others are definitions that are added to the specific ISPM but with the intention of incorporating them into ISPM 5 after adoption⁶. Guidelines for defining terms intended for inclusion in ISPM 5 are given in the [IPPC Procedural Manual for Standard Setting](#) (section on Guidelines for a consistent ISPM terminology)⁷.

If a new term is used that has not been previously defined in ISPM 5, it should be defined in the definitions section of the ISPM. However:

- there is no need to include terms that are already well defined in common dictionaries, or widely used and understood without ambiguity in a technical context
- it is preferable not to propose restricted definitions (for plant protection purposes) of terms that are commonly used with wider meanings (because this limits the possibility of using those terms in other ways)
- there should be a clear phytosanitary reason for defining the term

⁵ As decided by SC 2014-11, agenda item 4.3.

⁶ When reformatting standards in 2011, definitions in ISPMs were moved to ISPM 5 unless these were local definitions applicable only the ISPM in question.

⁷ As agreed in 2017-12 by SC e-decision (2018_eSC_May_01).

- the term should be usable in other standards (terms that are only relevant in the draft standard concerned should be explained in the text).

Level of obligation. Attention must be paid to the level of obligation in standards. Refer here to the question of [should, shall, must and may \(see section 5.3\)](#)⁸.

FAO disclaimer and copyright. The FAO disclaimer and copyright is posted on the [Adopted standards page](#) of the IPP; FAO personnel may also access it on the Publications Workflow System. All IPPC standard setting publications, including reports, are covered by this notice even if it is not included in every document. It is nevertheless advisable to include a copyright statement in any publication⁹. See the SOP for the copyright disclaimer (currently in preparation) for further details.

Text left out of a revised publication or errors in listing of references can be added and corrected after adoption when not part of the legal text¹⁰.

5.2 General recommendations on use of terms in ISPMs

Drafting groups should follow these recommendations¹¹ to ensure consistency across ISPMs:

- (1) use Glossary terms, rather than other terminology, wherever they are appropriate, and use them without abbreviation or substitution
- (2) do not use Glossary terms in inappropriate contexts, but instead substitute with more neutral language.

Recommendations on use of specific terms

Accredit, authorize and certify

These terms are used by many bodies and organizations in ways that may make them appear to have the same or similar meanings. In ISPMs and other IPPC documents, it is recommended that the terms be used with the following restrictions:

“accredit” – to give authority to a person or a body to do something when certain requirements have been met

“authorize” – to give authority to a person or a body to do something

“certify” – to state that a product or article meets certain requirements.

Appropriate level of protection, acceptable level of risk

These terms are not defined in the Glossary. They are recognised as terms of the WTO Agreement on the Application of Sanitary and Phytosanitary Measures (SPS Agreement) and “appropriate level of protection” is the term defined in this Agreement. These terms should only be used in ISPMs when referring to the SPS context, and with the precise wording of the SPS Agreement. Otherwise, in the phytosanitary context, it is preferable to state that exporting countries have to meet the “phytosanitary import requirements” of importing countries, not their “appropriate level of protection”.

(Non-)compliance, (non-)conformity

According to IPPC Article VII (2f), “Importing contracting parties shall ... inform ... of instances of non-compliance with phytosanitary certification ...”. Furthermore, “Compliance procedure (for a consignment)” has been defined in the Glossary. Thus, in those cases, compliance and non-compliance are clearly linked to consignments and thus to import. For cases referring to correct or incorrect application of measures (e.g. regarding requirements prescribed for an entire place of production) it might be more appropriate to use terms such as “(non-) conformity”.

⁸ As decided by SC 2014-11, agenda item 4.3.

⁹ As decided by SC 2014-11, agenda item 4.3.

¹⁰ Advice from FAO Legal service.

¹¹ Previous process approved by the TPG 2010-10 (Annex 13), noted by the SC 2011-05; revised by TPG 2013-02, approved by SC 2013-11 (Appendix 16); recommendations revised by TPG 2014-02, noted by SC 2014-05; revised by TPG 2015-12, noted by SC 2016-05; revised by TPG 2016-12, noted by SC 2017-05; revised by TPG 2017-12, noted by SC 2018-05; minor editorial amendments by TPG 2018-12.

Contamination, contaminating pest and contaminant

“Contamination” and “contaminating pest” are Glossary terms and they should be used whenever the object in question fits with their respective definition. In case an ISPM needs to refer to objects similar, but beyond any of those definitions (as not related to pests or regulated articles), another term such as “contaminant” may be used (despite the general clause of ISPM 5, that a definition pertains to a term and any derivative thereof).

Country, contracting party, national plant protection organization (NPPO)

Countries are variously specified in ISPMs as “contracting parties”, “national plant protection organizations (NPPOs)” or just “countries”. These terms can be used to support the intended meaning of a sentence. Where reference is being made specifically to the text of the IPPC and its obligations, the term “contracting party” is appropriate. If the responsibility for action is among those specified in Article IV of the IPPC, the term “NPPO” is more accurate. Otherwise, “country” can be used instead of “contracting party” for the requirements specified in ISPMs, as it is more straightforward, easier to understand and shorter.

Dispersal, dissemination and spread

These terms are sometimes used in ways that make them appear to have the same or similar meanings. In ISPMs, it is recommended that these terms be used with the following restrictions:

- “spread” should be used as defined in the Glossary (i.e. meaning the enlargement of the geographical range of a pest species by human activity or naturally)
- “dispersal” should be used for the movement of individual pest specimens (including propagules of plants as pests) be it by a vector, wind or soil or by its own means (e.g. flying)
- “dissemination” should be used only in reference to information flow.

Efficacy, effectiveness

“Efficacy” is a special concept linked to treatments, and the terms “efficacy” and “efficacious” should be used only in this context. In this sense, the term “efficacy (of a treatment)” is correctly defined in the Glossary. The definition of “efficacy” includes the notion of being “measurable”. Therefore, “efficacy” should preferably be used alone, without “level of”. In some cases, the term “effectiveness” and its derived form “effective” may be used; for instance an “effective measure”, “effectiveness of measures”. The generally accepted understanding is that efficacy refers to measurable results under controlled conditions, whereas effectiveness is the degree to which something is successful in producing the desired results.

Hazard

The use of the term “hazard” should be avoided in ISPMs. It is considered confusing and difficult to translate into other languages. Furthermore, the terms “pest” and “pest risk” are sufficient. Where hazard is used to refer to deleterious effects on humans, the term “danger” could be used instead.

(Non-)indigenous, (non-)native, exotic, endemic and alien

None of these terms are defined in the Glossary. Used in their normal dictionary sense, the terms “indigenous” and “non-indigenous” are the preferred terms to be used in ISPMs, while the use of other terms is discouraged. In particular, the CBD term “alien” should in any case be avoided in ISPMs, so as not to create confusion or conflict with that convention.

Inspection

This is the Glossary term. The definition of “inspection” includes “visual examination”, so the term “inspection” should not be used in conjunction with the word “visual” (as in “visual inspection”).

Intended use

This is the Glossary term, which should be used in preference to other wordings such as “end use”.

Invasive, invasiveness, invasion

“Invasive” is a defined term of the Convention on Biological Diversity (CBD) when it refers to certain organisms. It is recommended that this term is not used in ISPMs because more precise terms have been

defined for the IPPC (i.e. “pest” and “quarantine pest”, building upon the well-defined processes of “entry”, “establishment” and “spread”). While IPPC and CBD terminology may seem similar, the differences are rather important (see Appendix 1 to ISPM 5) and confusion could arise from using CBD terminology in ISPMs. The derivatives “invasiveness” and “invasion”, although not defined by CBD, should also be avoided in ISPMs, as the meaning of these words is unclear, and appropriate and well-defined IPPC terms exist for use in ISPMs.

IPPC

It is recommended that the abbreviation “IPPC” only be used when referring specifically to the Convention itself. When referring to decisions or actions of the Commission or the Secretariat these bodies should be specified.

Official

Anything “established, authorized or performed by an NPPO” is by definition “official”. Many Glossary terms are defined as “official” (e.g. “area”, “inspection”, “phytosanitary action”, “phytosanitary measure”, “quarantine”, “surveillance”, “test”, “treatment”). It is therefore recommended that the word “official” not be used where it is redundant.

Pest list

There are different types of pest lists, and the terms “pest list”, “list of pests” or “pest listing” used on their own may be ambiguous, especially where they may be interpreted as referring to the pests *regulated* by a country or the pests *present in* a country. Therefore, the terms “pest list”, “list of pests” or “pest listing” should always be qualified.

In relation to the pests regulated by a country, proper wording would be, for example, “list of regulated pests” or “regulated pest list” (or, where applicable, the narrower “list of quarantine pests”, or “list of regulated non-quarantine pests”). In relation to the pests present in a country, “list of pests present in the country” may be used. The terms “national pest list” or “categorized pest list” are ambiguous and should be avoided.

The defined terms “commodity pest list” or “host pest list” should be used where appropriate.

Pest free

In the Glossary, this term is not defined as such, and is used only in combination with a noun (e.g. “pest free area”). It should not be used alone, but rearranged to, for example “free from ... (whatever pest or pests are concerned)”. The term “pest freedom” is also used and accepted in ISPMs.

Pest risk management

“Pest risk management” is defined as being part of “pest risk analysis”. It relates to the selection and evaluation of phytosanitary measures before they are implemented. Accordingly, the term should only be used in the strict context of pest risk analysis (PRA). It is not appropriate in referring to activities involving the actual implementation of phytosanitary measures. “Pest management” or “reduction of pest risk” may, in this case, be the suitable alternative term.

Phytosanitary certificate, certificate

Where “certificate” or “certification” refers to “phytosanitary certificate” or “phytosanitary certification”, the latter terms should be used, to distinguish from other instances where certificate and certification may relate to other situations (e.g. Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) certificates, certification scheme). In ISPM 12 (*Phytosanitary certificates*), the plural term “phytosanitary certificates” refers to export and re-export certificates.

Phytosanitary import requirements

This is the defined Glossary term, and should be used whenever possible (rather than alternative wordings, such as “requirements of the importing country”). See also “restriction”, below.

Phytosanitary measures, phytosanitary actions

Care should be taken to use these terms correctly. Though in common language “measures” can be “actions”, this is not so in the Glossary. “Phytosanitary measure” is “legislation, regulation or official procedure” (in accordance also with the use of this term in the SPS Agreement), while “phytosanitary action” is “official operation”. For a fuller explanation, see Note 10 of the Annotated Glossary.

Phytosanitary status

The use of “phytosanitary status” should be avoided as it creates conflicts of meaning between existing ISPMs. The defined Glossary terms “pest status (in an area)” or “pest risk” may be used in some contexts. In other cases, the concept should be explained in plain words.

Point of entry

This is the Glossary term. “Point of entry” should be used instead of other wordings such as “port of entry”. Also, “point of entry” should not be used in relation to entrance points into a pest free area (PFA) or an area of low pest prevalence (ALPP).

Prescribed, required, target

The terms “prescribed”, “required” and “target” have been used in ISPMs to indicate the desired measurement of a temperature, dose or similar. However, “target” indicates that which is aimed for, but which may not be reached. Thus, the word “target” should not be used in ISPMs in this context. “Required” indicates a measurement that is set in the phytosanitary import requirements of a country, and is therefore a suitable adjective to use. “Prescribed” is synonymous with “required”, but “required” is the preferred term in this context.

Presence, occurrence

The terms “presence” and “occurrence” have been used in ISPMs in relation to pest status. However, it is recommended that the term “presence” be used rather than the term “occurrence”¹².

Prevalence

The word “prevalence” exists in the Glossary only within the term “area of low pest prevalence”. It should be used only in this context. Use of the word “prevalence” on its own should be avoided, as it is sometimes incorrectly used to mean “incidence” (a term that is defined in the Glossary).

Restriction

While this previously defined Glossary term has been used in ISPMs, it was used to mean “phytosanitary import requirements”. The term “phytosanitary import requirements” is defined in the Glossary and, as such, is the preferred term¹³.

Security, phytosanitary security

Only “phytosanitary security” is defined in the Glossary. The full term should be used when appropriate.

Shipment

“Shipment” is used in ISPMs in different contexts. Where it is intended to mean “consignment” (defined in the Glossary) or “dispatch”, these terms should be used and “shipment” should be avoided.

Trading partner

“Trading partner” (or “trade partner”) has been used in ISPMs in different contexts. This term may cause confusion. In ISPMs, it has often been used to make reference to the “NPPO of an importing country”, and does not cover the broader understanding of the term which may include stakeholders. Where it is intended to mean “importing country”, this expression should be used. Otherwise more precise wording should be used.

¹² CPM-10 (2015) adopted the deletion of the definition of “occurrence” and confirmed that the term “presence” does not need a specific IPPC definition.

¹³ CPM-10 (2015) adopted the deletion of the Glossary term “restriction” and thus the term can now be used with its general English meaning.

Other recommendations

and/or

Use of “and/or” should be avoided as it may confuse understanding and cause problems in translation. Usually, “and/or” can be replaced by “or”, without loss of meaning. “Or” means that either option or both options can apply at the same time. Only when a sentence reads “either ... or ...”, does it mean that the two options cannot occur at the same time.

References to the text of the IPPC

ISPMs frequently include references to the text of the IPPC. If it is necessary to explain the reference, this should not be done by providing an interpretation or abridgement of the IPPC text. The relevant text of the IPPC should be quoted as written.

“/” and “(s)”

The use of “/” (e.g. “insects/fungi”) and nouns with “(s)” (e.g. “the consignment(s) are”) introduces confusion and should be avoided:

- “and” or “or” may be used instead of “/” depending on what is meant in the context (e.g. “insects and fungi”, “insects or fungi”).
- single or plural can normally be used instead of (s) (e.g. “the consignment is” or “the consignments are”). In some cases, it may be necessary to keep both, separated by “or” (e.g. “the consignment or consignments”).

5.3 Should, shall, must, may, can¹⁴

CPM-1 (2006), ¶ 87, reached the following conclusions concerning the use of these terms in ISPMs:

- The word *should* in English is interpreted to mean a type of moral or political commitment. It creates an expectation (though non-binding) that something will be done.
- There is no limit on the use of the words *shall* and *must* provided their use is justified and is within the framework of the Convention and the legal status of the standards.
- The present tense of verbs (without *should*, *shall*, *must* or *may*) should not be used in ISPMs to express a level of obligation.
- The Spanish and French translations to be used consistently for ISPMs are:
 - for *should*: *debería* and *devrait*
 - for *shall*: verb in the future tense
 - for *must*: *debe* and *doit*
 - for *may*: *podrá* and *peut*

The following examples from ISPMs adopted since CPM-1 (2006) illustrate typical use of these words.

Should. The decision of CPM-1 means that *should* implies a commitment to take action and *should* is the term most commonly used in ISPMs to express a level of obligation.

Phytosanitary certificates should be issued only for these purposes. (ISPM 12)

Whether or not a lot will be inspected should be determined using factors stated in ISPM 23. (ISPM 31)

The following conditions should be included in the approval process for producers seeking to use the general integrated measures. (ISPM 36)

Shall is equivalent to *is required to* and is used when there is an obligation to take action. It is commonly used in formal legal wording for mandatory requirements. In ISPMs, it is used mostly where an obligation arising from the IPPC is reflected in an ISPM.

Each contracting party shall make provision, to the best of its ability, for an official national plant protection organization with the main responsibilities set out in this Article. (IPPC)

NPPOs shall use the model phytosanitary certificates of the IPPC. (ISPM 12)

¹⁴ The guidelines were agreed to by SC 12-11. 2015-03 edited to delete mention of years after ISPMs.

Phytosanitary measures required by a contracting party shall be technically justified (Article VII.2(a) of the IPPC). (ISPM 28)

The importing country may establish and shall communicate its technically justified phytosanitary import requirements for plants for planting (refer to ISPM 2, ISPM 11 and ISPM 21). (ISPM 36)

Any change in the status of the regulated pest in the area under consideration, or in the importing contracting party's territory, relevant to recognition shall be communicated appropriately and promptly as required by the IPPC (Article VIII.1(a)) and relevant ISPMs (e.g. ISPM 17). (ISPM 29)

Must provides the most unequivocally expressed directive. However, it is preferably used to describe unavoidable situations rather than for legal wording to express mandatory requirements (where *shall* is preferred). In ISPMs, *must* is used mostly in relation to obligations of a technical nature that are unavoidable (for example as part of a method description), as in most examples below.

Where consignments are combined, all the relevant parts added to these consignments must be available and meet the same phytosanitary import requirements. (ISPM 2)

Once a specified level of low pest prevalence has been established for a given situation using a specific lure/attractant, the lure/attractant used in the FF-ALPP must not be changed or modified until (ISPM 30)

Systematic sampling involves drawing a sample from units in the lot at fixed, predetermined intervals. However, the first selection must be made at random through the lot. (ISPM 31)

In all cases, positive and negative controls must be included in the tests. (DP 2)

The indicators must be graft-inoculated according to conventional methods such as bud grafting, using at least four replicates per indicator plant. (DP 2)

During dissection hind wings must be removed and mounted in glycerol or Hoyer's medium. (DP 3)

When ME and CUE are used a toxicant must be added. (ISPM 26)

May offers a possibility (e.g. *it is possible that*) and does not involve obligation (see first and second example). It is also frequently used in ISPMs in the sense of *is permitted to* in providing guidance on possible actions for implementing standards (see third example).

General integrated measures may include requirements such as keeping a plan of the place of production, examination of plants, keeping records, treating pests and sanitation. (ISPM 36)

Many species of fruit flies are pests of economic importance and their introduction may pose a pest risk. (ISPM 35)

For certain such commodities, the national plant protection organization (NPPO) of the importing country may decide that post-entry quarantine is required to manage pest risks identified by PRA. (ISPM 34)

Additional note on verbs and tenses that do not involve an obligation in ISPMs:

Can refers to possibility or capability and does not involve obligation. It is therefore not an alternative to *may* in ISPMs.

Real-time RT-PCR can be performed using either TaqMan or SYBR Green I. (DP 2)

Information assembled for other purposes, such as ..., may be useful but cannot substitute for a PRA. (ISPM 2)

The **present tense** of verbs (excluding *should*, *shall*, *must* and *may*) should not be used in ISPMs to express a level of obligation according to CPM-1 (2006). However, the present tense is still commonly used throughout ISPMs in other circumstances, especially to express facts.

The importing contracting party is responsible for determining the type of information that will be required in order to recognize a PFA or ALPP, depending (ISPM 29)

Many pests are associated with the production of potato (*Solanum tuberosum* and related tuber-forming species) worldwide. (ISPM 33)

The methods included in diagnostic protocols are selected on the basis of their sensitivity, specificity and reproducibility. (ISPM 27)

A two-step RT-PCR protocol is used. The RT reaction is composed as follows: (DP 2)

The **imperative mood** of verbs (i.e. *do this*) does not reflect a level of obligation, but is sometimes used in ISPMs in relation to series of instructions of a technical nature, such as details of identification methods in diagnostic protocols.

Transfer the specimens from the collecting fluid into clean 70% ethanol; if the specimens are reasonably flexible, attempt to spread the legs, wings and antennae using micropins ... (DP 1)

6. Acknowledgements

For specifications, ISPMs, CPM recommendations and any other document developed by an inclusive group process (e.g. IPPC Strategic framework), it should be clear when and by which body the document was approved or adopted. Depending on the type of publication, this may be as part of either a Publication history in the front or end matter, or an acknowledgements section. In the latter, where possible it should also be said that the document has been developed under the auspices of the IPPC Secretariat. Acknowledgements of organizations, individuals or in-kind contributions should not be made in these documents, except in the following circumstances:

- in DPs (as an acknowledgements section)
- credits for photographs, figures and other illustrations (either in an acknowledgements section, in captions, or adjacent to the images)
- when funds are provided via a project for which specific acknowledgement requirements have been agreed to in advance.

Guidance on acknowledgements in DPs can be found in the TPDP *Instructions to authors*. For IPPC guides, the following is used as a template:

This document presents [give scope of document]. It was created under the auspices of the IPPC Secretariat as a component of the IPPC National Phytosanitary Capacity Building Strategy, which was adopted by the fifth session of the Commission on Phytosanitary Measures (2010) of the IPPC. This work has been developed and peer-reviewed by selected experts all over the world under the coordination of the IPPC Secretariat with the oversight of the IPPC Implementation and Capacity Development Committee.

The development of this document was possible thanks to the financial contribution of [name of organization or organizations]. [N.B. Include this paragraph only if the requirement for acknowledgement was agreed in advance.]

Where acknowledgements of organizations, individuals and in-kind contributions are not included in the document, acknowledgement should be made in meeting reports of the bodies approving or adopting it. In addition, at the end of a given year, certificates of appreciation should be sent to all those involved in the development of such documents published or adopted during that year.

Details and documentation on any copyright permissions obtained should be retained by the Secretariat in a suitable format.

PART 2: EDITING

This part describes the preferred style of text elements in IPPC documents. Included in this section is guidance on scientific nomenclature; list style; quotations; references; capitalization; and matters that have arisen in IPPC documents.

It may repeat some material from [FAO style](#) but differs on various points. FAO style should be consulted in conjunction with this style guide for complete guidance. FAO style defers to the *Chicago manual of*

style for punctuation style not covered in the FAO style guide; IPPC style for such punctuation is included in this style guide, to obviate the need to refer to the *Chicago manual of style* itself.

This part of the style guide is directed at originators (writers) and editors, who should follow the style guide in order to ensure consistent language between IPPC documents.

7. Grammar, Spelling and Punctuation

7.1 Grammar and spelling

The grammar and spelling rules that apply to IPPC documents are those of British English (*Oxford English dictionary*). Because certain words are spelled differently from British English, reference should be made to the [word list](#) in this style guide.

The indefinite article preceding consonants with a vowel sound (such as *f*) is “an” (not “a”).

7.2 Punctuation

Commas in run-on lists

In general, run-on lists of items within a sentence should not use the serial (Oxford) comma after the penultimate item (e.g. “The items are A, B, C and D.”). However, in some instances a serial comma may be essential to avoid ambiguity or confusion (e.g. “The possible components are A, B, C and D, and E and F.”).

En dashes

En dashes are used for numerical ranges (without spaces):

pp. 23–46; 1994–1997; steps 2–5

En dashes may also be used – sparingly – as paired parenthetical dashes (with spaces) if there is a reason, such as emphasis, to prefer them in place of paired commas or parentheses. They are achieved by typing control+numberpad - (Mac: option+hyphen). Please also refer to [FAO style](#) for further guidance.

Em dashes should not be used in IPPC documents (as in FAO style, but in contrast to Chicago style).

Hyphenation of compound adjectives

Compound adjectives preceding a noun are hyphenated (e.g. “long-term planning”), except for compound chemical terms (e.g. “carbon dioxide concentration”) and terms given otherwise in the IPPC word list. Hyphenation is not used for compound modifiers that follow a noun (e.g. “planning in the long term”) nor for adjectival compounds where the first element is an adverb ending in “-ly” (e.g. “a recently developed technique”).

Spacing and non-breaking punctuation

Leave only one space after the full stop between sentences.

Non-breaking space. PC, Mac: control+shift+spacebar. It is recommended that a non-breaking space be used in “ISPM [No.]”, for units, figure numbers, between title and name, and similar cases.

Non-breaking hyphen. PC: control+shift+hyphen; Mac: command+shift+hyphen.

Non-breaking en dash. Not available in Word but can be substituted with a minus sign, which, although placed higher than the en dash, is of similar length.

Parentheses

When only part of a sentence is enclosed in parentheses, punctuation is placed outside (as in this first example). (When a complete sentence is enclosed in parentheses, its punctuation is also enclosed, as in this second example.)

Parentheses are often useful in a list of sentence fragments to keep the items of similar type. They allow extra information to be added to a list item without breaking the overall style of the list, for example:

a decision based on pest risk analysis to detect a specified level of infestation (the infestation determined to present an unacceptable risk)

an evaluation of the effectiveness of phytosanitary measures applied before inspection.

Square brackets

IPPC style differs from Chicago style on the use of square brackets. In Chicago style, (square brackets [if needed] are used within parentheses); that is, nested brackets are of differing shape. In IPPC documents (use parentheses within parentheses (if needed)).

There are strong conventions concerning the use of square brackets. Most importantly, square brackets indicate authorial additions to or explanatory substitutions in someone else's text. In this way, they may indicate with "[sic]" that an error in a quotation is not your own.

In running text, square brackets may be used to show missing information [...] or options that will need amendment when a draft is finalized, for example, "see section [x]", "ISPM 7 [201-]".

Square brackets are often used extensively in other international forums while negotiating text or in other commentary to indicate no final decision or agreement or that there are several options.

Their use should be kept to a minimum.

Primes, straight apostrophes and straight quote marks

In DNA sequences (5'-CTG AAA ...) a prime (') (Unicode 2032) is used, or a straight apostrophe (') may be substituted. For minutes and seconds of latitude/longitude (41° 16' 40"S) a prime and double prime (") (Unicode 2033) are used, or a straight apostrophe (') and straight quotation mark (") may be substituted. Because Word is usually set to automatically convert straight quotes to curly quotes, the easiest way to arrive at the straight format is to type an apostrophe and then immediately undo the change that Word has made (PC: alt+backspace, or ctrl+z; Mac: command+z) before typing further.

Position of footnote cues

Footnote cues (note numbers) are placed within the closing punctuation, except where the cue relates to the whole paragraph and that paragraph comprises more than one sentence, in which case the cue is placed after the closing punctuation of the final sentence. This differs from FAO style, where cues are always placed after punctuation.

8. Terminology and Names

8.1 Scientific names and taxonomic nomenclature

Scientific names are used in Latin throughout ISPMs in all languages (except Chinese).

The describing authority and year should be given the first time a Latin name is given. The authority name and year are separated by a comma and written in Roman (e.g. *Guignardia citricarpa* Kiely, 1948). An authority in parentheses indicates that the species has changed since the original authority described it. The new authority does not have to be given, but sometimes is. Authorities and dates are not required for viruses and viroids.

In DPs, the authority only needs to be given for the plant pest that is the subject of the DP, not for host species or any other pests mentioned (unless a lack of authorities would give rise to confusion or ambiguity).

Note that when scientific names appear in italicized titles, they must be presented in Roman.

After first mention of the full species name, the genus may be abbreviated to an initial letter provided there is no confusion with other genera in the text. It is acceptable to use the abbreviated genus at the

beginning of a sentence. At the beginning of a paragraph, the full name should be used (except for DPs, where the abbreviated genus may be used at the start of a paragraph, even if at the start of a section). At first mention of a new species from the same genus, the genus must be written in full again (except in lists and tables).

Common names should be avoided in the text, but can be added for information where they are deemed useful to understanding. If they are included, they should be mentioned in parentheses after the first use of the Latin name. Common names should be in lower case, except for initial capital letters on proper nouns (e.g. Rocky Mountain bristle cone pine). There should be consistency in the use of common names in a document; that is, common names should be given for all species that have them.

Scientific synonyms are listed chronologically on separate lines¹⁵.

The singular or plural “species” is distinguished in the abbreviated forms “sp.” or “spp.”, respectively.

The terms “*sensu lato*” and “*sensu stricto*” are abbreviated after first use to “s.l.” and “s.s.”.

Genera, species and subspecies, as well as infrageneric and infraspecific forms, are italicized. The associated abbreviations of “sp.”, “subsp.”, “var.” are not italicized (e.g. *Clavibacter michiganensis* subsp. *sepedonicus*; *Phytophthora erythroseptica* Pethybr. var. *erythroseptica*).

Cultivar epithets are not italicized and are placed in single quotation marks. The abbreviation “cv.” is not used.

Mangifera indica ‘Kensington Pride’

Prunus cerasifera ‘GF 31’

The cultivar ‘Navel’ is grown in ...

Care should be taken not to confuse the terms “cultivar” and “variety” or to use them interchangeably.

Hybrids (crosses) are italicized, with a multiplication sign used either between the two named taxa (e.g. *P. persica* × *P. davidiana*) or, where the hybrid has a name, closed up to the generic name (for intergeneric hybrids, e.g. ×*Agropogon lutosus*) or to the specific epithet (for interspecific hybrids, e.g. *Cistus* ×*cyprius*).

Scientific names for living organisms follow varying conventions, and these may change over time, thereby creating some confusion about the correct presentation of names. The principal codes that govern the nomenclature are as follows (the Technical Panel on Diagnostic Protocols (TPDP) also provides advice on this subject):

- [International Code of Nomenclature for Algae, Fungi, and Plants](#) (formerly International Code of Botanical Nomenclature)
- [International Code of Nomenclature for Cultivated Plants](#)
- [International Code of Nomenclature of Prokaryotes](#) (formerly International Code of Nomenclature of Bacteria)
- [International Code of Zoological Nomenclature](#).
- The classification of viruses is more open to debate and changeable, with more than one system being used (e.g. [International Committee on Taxonomy of Viruses](#) and the Baltimore classification).

Use italics for names of recognized plant viruses and viroids. Viruses and viroids may have a descriptive name to which italics are applied. (Note that many publications will not italicize such descriptive names even though there is no alternative more formal name for the organism.) The descriptive name in this

¹⁵ Note that this may be different from how taxonomic information is normally presented for mycology where full references are also provided after the author name.

format does not follow the usual two-part genus–species system. The genus and family may be listed separately.

Prunus necrotic ring spot virus (PNRSV)

Potato tuber spindle tuber viroid (PSTVd)

Unlike family names for other organisms, family names for viruses and viroids are italicized.

8.2 Organizations and people

Referring to FAO and other international organizations

When using the abbreviated form of the name of an organization (e.g. FAO, EPPO) do not use a definite article (“the FAO” or “the EPPO”) unless it is an adjectival construction:

one of the official languages of FAO

the FAO workshop on

Article XIV of the FAO Constitution.

Note that “the IPPC” (being not an organization, but a convention) may be used.

When using an indefinite article with “FAO”, use “an” rather than “a” to reflect the common pronunciation of “FAO” as an initialism with the three letters spelled out rather than its Italian pronunciation as an acronym:

an FAO publication.

Do not use the possessive form with FAO:

a large part of the FAO budget *not* a large part of FAO’s budget.

Referring to people

In general, do not use honorifics or titles, such as “Mr”, “Ms”, “Dr” or “Professor”. Give the first name followed by the last name; in meeting reports and the status box of documents, the last name should be in capital letters (e.g. Brent LARSON). In some circumstances, however, it is helpful to add “Mr” or “Ms” (without full stop) because the gender of the person may otherwise be unclear.

However, do not reference people by name in reports, documents, etc. unless absolutely necessary. This is to avoid issues arising from other people’s names *not* being mentioned (if positive mentioning), misunderstandings or negative mentioning. The Steward should be mentioned as “Steward”, as she or he may change throughout the history of a draft specification or ISPM, and observers should be mentioned as “observer from XX”. Participants in meetings are mentioned with their country in parentheses.

8.3 Technical accuracy and technical specialities

Accuracy

Accuracy is essential in all aspects of documents for the IPPC. This extends from accuracy in recording references and quotations to more technical matters of numerical data and units of measurement as well as the names of products, processes, legal instruments (agreements, conventions, declarations, treaties), organizations and organisms.

Legal instruments and organizations

The following points on achieving accuracy in nomenclature should be considered:

- Matters of nomenclature for organizations can often be checked by a quick Internet search followed by a look at the home web pages for the organization. If the web page uses conflicting nomenclature (this is not unknown), there is often an annual report or other governance document that can be downloaded for a further check.
- Be conscious of organizational name changes and use phrases such as “the then Ministry of Agriculture and Fisheries” or “now administered by ...”.

- Be aware of the correct spelling and wording for the names of organizations; for example ISO stands for International Organization for Standardization, OECD for Organisation for Economic Co-operation and Development.
- Consider whether accents may be needed (Comité, Société). However, some organizations choose not to use accents in publications for international use, in which case do not “correct” their names by adding accents.

Proprietary products and processes

The following points may be considered with respect to commercialized products, designs or processes:

- A registered trademark (®), trademark (™), copyright (©) or other proprietary sign should be used with care. Note that only ™ is superscript.
- The registered trademark symbol ® is used only with trademark names that have been registered with official trademark offices such as the United States Patent and Trademark Office. A company may use a ™ symbol for product names that it claims but has not registered with a trademark office.
- It is common practice for the ™ and ® symbols to be used only when the product is being mentioned for profit-making purposes. Hence these symbols would not normally be needed in IPPC documents.
- Assessing whether a registered trademark ® or other proprietary sign should be added to the text is a matter of judgement rather than strict rules. It may depend on how rigorously the proprietor enforces the use of the proprietary sign in publications. Look for papers previously published in reputable international journals for guidance, although it may be very difficult to determine by Internet search.
- If needed, the proprietary sign is normally added to all instances of the proprietary product, design or process within the document.
- The trade names (brand names) of chemicals, reagents and equipment should, as far as possible, be avoided and a correct designation or description of the chemical, reagent or equipment given instead, using the generic names of products.

8.4 Terms, expressions and punctuation to use with caution

Approximate quantities

Describing quantities in other than precise numerical terms should be done with care:

- The phrase “a number of” provides no useful information and should be avoided.
- Terms such as *few*, *several*, *some* and *many* are subjective (but may be the only possible options).
- With respect to describing the number of member interventions to be recorded in CPM reports, the IPPC Bureau decided in June 2009 that *one*, *few* and *some* would be used, where *few* would represent two to four and *some* would be used for more than four member interventions.

Including, such as, for example

Examples introduced by “such as”, “for example” or “including” should not also have “etc.” These introductory terms imply that the following examples are not an exhaustive list.

It is preferred that “e.g.” and “i.e.” be used in parentheses and avoided in the main part of the sentence:

prescribe and adopt phytosanitary measures concerning the importation of plants, plant products and other regulated articles, including, for example, inspection, prohibition on importation, and treatment

No comma is used after “e.g.” (as in FAO style, but differing from Chicago style) but may be used after “for example” if it suits the context of the sentence. A comma is not used after “such as”:

The text of additional declarations may be specified in, for example, phytosanitary regulations, import permits or bilateral agreements

An official operation, such as inspection, testing, surveillance or treatment, undertaken to implement phytosanitary measures.

Which, that

Which is best reserved for non-defining (non-restrictive) statements, these often being clauses preceded by a comma. A non-defining *which* statement can be deleted without altering the grammatical and logical completeness of the sentence. This does not mean that the information within the *which* clause is unimportant.

Examples of the use of *which* from the Convention and standards follow:

The Commission may adopt and amend, as required, its own Rules of Procedure, which shall not be inconsistent with this Convention or with the Constitution of FAO.

These effects, which may be positive or negative, should be identified and quantified.

This standard is based on the concepts of intended use of a commodity and the method and degree of its processing, which are also addressed in other ISPMs

Note that the Convention uses instances of *which* that could more accurately be replaced by *that*:

A contracting party may apply measures specified in this Article to pests which may not be capable of establishment in its territories but, if they gained entry, cause economic damage.

That is very useful for accuracy of wording in standards. It is employed for defining (restrictive) statements essential to the meaning of the sentence. The defining *that* statement explains which of several possibilities is meant; it restricts the whole sentence to a particular subset.

Examples of the use of *that* from the Convention and standards follow:

Contracting parties shall institute only phytosanitary measures that are technically justified, ...

It is desirable to have contingency plans to address specific pests or pest groups that have a high potential for introduction, and for which an eradication plan is deemed to be both feasible and necessary, before the pest is found in an area.

Pathway information includes identifying the commodities or items that may have carried the pest

If people are involved, replace *which* or *that* with *who*:

The instruments of ratification shall be deposited with the Director-General of FAO, who shall give notice of the date of deposit to each of the signatory states. [*who* replacing *which*]

the names of the personnel who undertook these tasks [*who* replacing *that*]

Use of a slash (/)

The slash (or solidus) should be avoided in running text unless it is deemed absolutely necessary.

The slash is used to designate a 12-month period that is not a calendar year. It may also apply to any other definable period less than 12 months that includes the New Year:

the 2008/09 financial year

the Australian summer of 2009/10.

The slash is commonly used for alternatives such as *and/or* and *either/or*. Preferably its use should relate to mutually exclusive alternatives such as *yes/no*, *pass/fail* and this condensed format is useful in forms to be filled in.

In running text it is usually possible to avoid constructions such as “A and/or B” because “A or B” normally allows for the possibility that both A and B could be applicable. The use of “*either A or B*” allows for only one or the other being possible. See also General recommendations on use of terms in ISPMs.

The example below could use “or” instead of “and/or”:

Contracting parties may adopt and/or implement emergency actions, including emergency measures, when a new or unexpected phytosanitary risk is identified.

> Contracting parties may adopt or implement emergency actions, including emergency measures, when a new or unexpected phytosanitary risk is identified.

In other instances, “and” is more appropriate than “and/or”, as shown below, where the first option would usually be undertaken first:

The NPPO should check the regulations of the importing country and/or bilaterally establish conditions to ensure that compliance can be achieved.	>	The NPPO should check the regulations of the importing country and bilaterally establish conditions to ensure that compliance can be achieved.
---	---	--

Where the slash is used between two descriptive terms, “or” is usually a possible substitute. The example below shows the current wording and the possible rewording to avoid the slash:

local reporting/notification and publicity, local regulation, control/elimination of detected pests	>	local reporting, notification and publicity; local regulation; control or elimination of detected pests
--	---	--

Miscellaneous terms

Alternate, alternative. *Alternate* (as an adjective) traditionally means going back and forth between two things, as in alternate Mondays (i.e. every other Monday). *Alternative* means another possibility or available substitute. Formerly strict usage of *alternative* would have referred to one of two options; modern usage allows more than two options, so there may be several alternatives.

Assay, method, technique and test. These terms should be used consistently. *Assay* should be avoided as it may be interpreted differently in different languages, and should not be used after the acronym “ELISA” (enzyme-linked immunosorbent assay) as the letter “A” stands for “assay”. In accordance with the Glossary, *test* should be used only for *official* examinations and should not be used in relation to visual examinations, although it can be used for morphometric tests.

Due to, owing to, because of. IPPC style is that *due to* should be used to modify nouns and should be interchangeable with “attributable to”. *Owing to* or *because of* should be used to modify verbs (*because of* is preferred for its clarity):

Crop failure was due to drought [*due to* modifies *failure*]; or Crop failure resulted from drought

minimizing environmental risks due to improper handling or use ... [*due to* modifies *risks*]

The crops failed owing to drought; or The crops failed because of drought [*owing* and *because of* modify *failed*]

Owing to the differences in the configuration of treatment lots, higher doses than the Dmin may be required to ensure that ... [*owing to* modifies [higher doses] *may be required*]

In areas where the fruit flies concerned are not capable of establishment because of climatic, geographical or other reasons, [*because of* modifies *are not capable* [of establishment]]

State. This term is overused to introduce quoted material. It should be used to specify a fact or requirement or to declare a position on something. It is not a more formal or correct term for *said*, which can be used to introduce a quotation. Often *ask*, *suggest*, *propose*, *claim* or similar words can replace *state*. *State* is acceptable but not essential for introducing quotations from the Convention and in standards where requirements are being set out. It is equally acceptable for the Convention to *say* something.

Guidelines. This term may not be used in the title of an ISPM.

9. Lists

9.1 Run-on lists

In simple lists within parentheses, there is no “and” before the final item (e.g. one, two, three). In a list ending with “etc.”, a comma is used after the last item in the list (one, two, three, etc.)

In complicated sets of groupings within a list, semicolons should be used to demarcate the subsets (e.g. “The possible configurations are: A, B and C; D; E and F; and G.”). However, such a list might be better suited to presentation as a bulleted list.

9.2 Bulleted lists

Bulleted lists are a way of presenting information in a summarized format. The items are distinguished typographically by the bullet and indentation, giving emphasis to the items and increased readability.

A sentence stem ending in a colon should precede bulleted lists. The sentence stem introduces and applies to all items in the list. Wherever possible, the sentence stem should be a complete statement so that it obeys the usual rules of using colons. In the examples below, the first sentence stem is preferable to the second.

The following example of a list summarizes its essential components:

- a complete introductory sentence preceding a colon
- sentence fragments for list items
- grammatical consistency of list items
- a concluding full stop.

A second type of list:

- uses a colon despite having an incomplete sentence stem
- may occasionally use secondary bullets in the list for:
 - improved readability
 - brevity
 - emphasis (secondary bulleted lists do not end with a full stop)
- punctuates the introduction to secondary bullets with a colon
- keeps secondary items consistent with each other
- concludes with a full stop.

A third type of list is distinct from the first two examples:

- There should always be a complete introductory sentence (ending with a colon).
- The list items are complete sentences.
- Unlike sentence fragments, list items that are complete sentences need not be grammatically parallel.
- The list items have normal sentence punctuation. This allows some more detailed items to be included if necessary. However, it is preferable to keep items consistent in appearance.

The nature of the text determines which type of list is most appropriate. The first and third examples above are preferred. Brief comments suit the first format; more complex information suits the third type of list.

Do not use semicolons on sentence fragments within lists (this point differs from FAO style) except where it is legal usage, essential for the meaning of the whole or when preserving the punctuation of quoted material presented in list format.

If it proves very difficult to make list items consistent in format (all sentence fragments or all complete sentences; all sentence fragments based on nouns (as in the first list example and secondary bullets in the second list example); or all opening with verbs (second example)), this may indicate that a bulleted list is not the appropriate way to present the information. Normal text paragraphs should be used instead.

9.3 Numbered lists

For numbered lists, whether in-line or otherwise, use Arabic numerals, not Roman numerals or letters: (1), (2), (3) not (i), (ii), (iii) or (a), (b), (c).

Numbered lists should be used only for a sequence of items such as the steps in a process or a series of instructions. The introductory sentence may point to the use of numbers (e.g. “There are eight steps in the determination of equivalence:”).

10. Abbreviations, Acronyms and Initialisms

Abbreviations, including acronyms and initialisms, may be used for complex words or phrases that appear more than three times in one document. An abbreviation may be provided for an isolated instance in a document if the abbreviated form is commonly used and readily identifiable (e.g. CBD).

Abbreviations should be spelled out in full at first mention in all IPPC documents except as noted below for IPPC and ISPM in standards.

Abbreviations, acronyms and initialisms should be placed in parentheses after the expanded form, for example “pest risk analysis (PRA)”.

Abbreviations, acronyms and initialisms should be avoided at the start of a sentence and in titles, but may be used in headings.

Abbreviations, acronyms and initialisms need not be spelled out in component documents (annexes, appendixes, etc.) when already spelled out in the core text of the document, although spelling out may be considered depending on the context.

Deviations from this expansion–contraction format may be used in document elements that are not part of the running text. For example, if an abbreviated form is used in a table because of space constraints, a table footnote should provide the expanded form using a contraction, expansion format (e.g. “*Abbreviations:* PRA, pest risk analysis”) because the abbreviation has already been used in the table.

Commonly used abbreviations for non-English phrases that do not require definition and are not written in italics include cf., e.g., etc., i.e., vs. Note that the latter is written as vs (not v. or vs., and not in italics).

If a single-word abbreviation concludes with the concluding letter of the expanded form, no full stop is needed. Hence “ed.” and “eds” are correct.

Abbreviations should not be used for simple two-word phrases (e.g. phytosanitary manual).

The need for abbreviations for technical terms in ISPMs should be carefully considered. Consideration should be given to the readability or understanding of the text. Abbreviations are also generally more used in English, and are normally translated by the original full text in some languages (e.g. French or Arabic).

Abbreviations are usually defined as singular and so the plural form needs adjustment. An ISPM is a singular standard, an International Standard for Phytosanitary Measures (ISPM), so the plural is ISPMs. Care should be taken as to whether complicated initialisms are defined in the plural or singular. If the expression is consistently used in the plural sense, then the plural may be chosen for the definition of the initialism (e.g. fruit fly free places of production (FFF-POP) and fruit fly free production sites (FFF-PS)). If, however, the definition were singular, then the corresponding plural form of the initialism would be FFF-POPs and FFF-PSs (the latter is undesirable). The preferred option is to define in the singular and then to try to use the singular form in text to avoid awkward plural forms of the acronym.

Where an acronym or initialism is used for phrases rather than the names of entities, the expanded form will not usually need initial capitals, hence pest risk analysis (PRA), not Pest Risk Analysis, and phytosanitary capacity evaluation (PCE), not Phytosanitary Capacity Evaluation.

An acronym is a word created from the initial letters of other words (most commonly an organization or other entity) to abbreviate the phrase and usually pronounced as a word (e.g. the European Plant Protection Organization would be abbreviated as the word EPPO). The acronym should be spelled out at first mention.

An initialism is a group of initial letters used as an abbreviation with each letter being pronounced separately (e.g. NPPO, FF-ALPP). Initialisms are widely used in IPPC documents, particularly in English (see notes below), and should be spelled out at first mention (including in the status box of draft standards and the publication history of adopted standards).

Note that in the more recent ISPMs it has become the norm *not* to define IPPC and ISPM at first mention. This is acceptable within each ISPM, where the title page includes both terms in full and there is no likelihood of confusion. The definition of these terms should be continued at first mention in other IPPC documents for more general readership (e.g. explanatory texts, CPM reports).

11. Capitalization

Capitalization should be kept to a minimum. This is the general rule of [FAO style](#) and the example of using “The Government of France” but “participating governments” is provided.

Guidance on general style is provided below. Additional guidance on the capitalization of specific words can be found in the [word list](#).

11.1 Headings

Title case is used for level 1 headings in ISPMs:

1. General Information and Planning Processes

Sentence case is used for lower-level headings in ISPMs:

1.1 Evaluation of pest reports

Headings in supplements, annexes and appendixes also follow this style.

11.2 Meetings, projects, themes and publications

Meetings, workshops and seminars are in sentence case, with initial capital letter only, in italics:

EWG meeting on the *International movement of grain*

Workshop on *Synergies among biodiversity-related conventions*.

Project titles are title case (all significant words are capitalized) and in quotation marks:

IPPC implementation pilot project on “Surveillance”

STDF project 401 “Training of Phytosanitary Capacity Evaluation (PCE) Facilitators”

the proposed project on “Strengthening the Capacity of Developing Contracting Parties to Implement the IPPC” under the framework of the FAO-China South-South Cooperation Programme.

IPPC annual themes are capitalized in quotation marks:

the IPPC annual theme “Plant Health and Trade Facilitation”.

Publications, studies and similar are in sentence case, with initial capital letter only, and in italics:

a study on *Diversion of intended use*

the brochure on *Phytosanitary terminology*.

11.3 IPPC and standards

The following is recommended use of initial capitals or lower case in relation to the IPPC and standards:

the International Plant Protection Convention (IPPC); the Convention; in Article VII.1(c) of the IPPC

International Standards for Phytosanitary Measures (ISPMs); relevant international standards

see Annex 2 and Appendix 1, as well as Figure 2 and Table 1 in section 3.3.

Note the varying treatment of “section [x]” (in lower case) compared with “Article [x]”, “Figure [x]”, “Annex [x]” (using initial capitals).

11.4 Contracting parties, NPPOs and RPPOs

Contracting parties. The term “contracting parties” is not capitalized because that is how it is presented throughout the Convention.

NPPOs and RPPOs. In the past these have commonly been written in full with initial capitals. However, the terms do not refer to a particular organization but are generic in nature (as indicated by their frequent use in the plural form), and should therefore be used in the format of the Convention:

national plant protection organizations (NPPOs)
regional plant protection organizations (RPPOs).

11.5 Positions and titles

Positions should be capitalized when linked with a specific person (Standards Officer, Chairperson, Steward).

12. Italics

Italics should be used for certain foreign phrases such as *in vitro*, *inter alia*, *mutatis mutandis* and *sensu lato* (see the [word list](#)). Note that abbreviations of common foreign phrases such as “i.e.” and “e.g.” are not italicized.

Italics may be used for emphasis of common terms (such as “both”, “and”, “also”, “not”, “never”) within body text but should *not* be overused.

Italics may be used in place of quotation marks to emphasize particular terminology:

A pest record provides information concerning the presence or absence of a pest, ...

Italics or bold may be used for minor subheadings, particularly for distinguishing phrases that are followed by their explanation:

Economic value. This is the basis for measuring the cost of the effect of changes (e.g. in biodiversity, ecosystems, managed resources or natural resources) on human welfare. ...

Positive nucleic acid control. This control is used to monitor the efficiency of the test method

Gene names, including the number, are italicized when written in full (e.g. *NADH dehydrogenase 5* gene). Gene symbols (e.g. *nad5*) are also presented in italics. However, protein names and symbols are not italicized.

For restriction enzymes (e.g. for RFLP tests) the enzyme symbols are in italics, except the number and the letters (e.g. *EcoRI*).

For guidance on how to write titles of meetings, workshops and seminars, and publications, studies or similar, see section 11.

See also section 8.1 on use of italics in scientific names and section 15.1 on use of italics in bibliographic style.

13. Numbers, Units and Dates

13.1 Numbers

Large numbers. For numbers of four figures or more, use a non-breaking space to denote thousands, etc. (e.g. 5 000, 10 000). For further guidance see [FAO style](#).

Minus sign. Use the minus symbol – (Unicode 2212) rather than a hyphen.

Telephone and fax numbers. The preferred format is the simple string of digits most commonly used nowadays for entering numbers in mobile phones¹⁶:

+39 06 4884293, +44 1904 455161, +64 4 8940731

Note that Italy is unusual in requiring a zero in the city code. Insertion of one space in the middle of the main string of digits may be useful for readability for eight or more digits.

13.2 Units and percentages

Degrees Celsius. Note that FAO style prescribes a space between the numerals and the °C, this being in accordance with SI unit rules. (This is not common practice in scientific and technical literature.) To avoid °C becoming separated from the value, use a non-breaking space (control+shift+spacebar). (The degree sign can be obtained under Insert | Symbol for TimesNewRoman or by typing alt+numberpad 0176 on a PC or shift+option+8 on a Mac.)

Litre, tonne. Do not abbreviate the word “tonne”. Spell “litre” in full where possible; where not possible and in tables in DPs, the abbreviation “L” may be used. The unit symbol for millilitre may be used and is “mL”, not “ml”.

Micro. For the SI prefix “micro”, use the micro symbol μ (Unicode 00B5) rather than a lower case Greek mu (Unicode 03BC).

Percentages. FAO style is to use “percent” in text and the % symbol in tables. However, some discretion may be applied to IPPC documents, particularly ISPMs, where % may be used in text if it is used in a technical context such as DPs, confidence levels or sampling methods. The symbol should not be used in the text of less technical IPPC documents. There is no space between the number and the % symbol.

13.3 Dates

The style of writing dates is that of FAO: Monday, 16 October 2010.

In publication histories, the ISO style is used for year-month (2011-05). This may potentially create confusion because a dash often denotes a period in time (from - to), however, the ISO style has been chosen to ensure that the publication histories in all translations use the same format and that they can be checked by the Secretariat for accuracy.

Reference is also made to the Secretariat’s file naming convention (available upon request). Note that for electronic filing, the date is ISO style year-month-date (2011-05-23).

13.4 Currencies

Use the ISO currency codes given in the [FAO Names of Countries database](#), with a non-breaking space between the code and the amount (e.g. EUR 500).

14. Quotations

Single quotation marks should be used only for quotations within quotations. They should not be used for informal expressions. Double quotation marks are used for expressions to which attention is being drawn or those that are colloquial, not yet formalized in dictionaries or being used outside normal grammatical rules.

The following points should be noted:

- Quotations from ISPMs should be avoided where possible¹⁷.
- Quotations should follow the wording of the original exactly.

¹⁶ FAO style recommends: (+39) 06 57053405. However usage in FAO documents often diverges.

¹⁷ SC 2014-11, agenda item 4.3.

- Quotations should follow the presentation (italics, bold, capitals, underline, etc.) of the original. Italics are not used for the purpose of displaying the entire quotation.
- Punctuation within the quotation should be reproduced accurately. Closing punctuation that appears in the original material “precedes the closing quotation marks.” Closing punctuation that is not in the original material “follows the closing quotation marks”. “The exception is where the quotation is a grammatically complete sentence, starting with a capital letter, in which case the full stop lies within the closing quotation marks.”
- If a quotation fragment is used in a sentence, an upper case or lower case letter in the original quotation may be altered to suit its position in the new sentence (e.g. changing a lower case letter in the original to a capital letter in the quotation is allowable at the start of a sentence).
- Authorial interpolations should be indicated in square brackets.
- Missing text mid-quotation should be indicated with an ellipsis with a space on each side (...). If possible, use the ellipsis symbol (Unicode 2026), otherwise use three full points without spacing between them (this differing from Chicago style, which uses spaced full points).
- An ellipsis is needed at the end of a quotation if it is a complex statement that does not finish with its original punctuation. A concluding full stop may be added to the ellipsis (....) if appropriate in the context; this differs from Chicago style, where the full stop is placed before the ellipsis.
- An ellipsis is not needed at the start of a quotation or at the end of a short fragment that is in running text.
- Short quotations should be indicated by double quotation marks (“ ”) and included in normal paragraphs.
- Long quotations (more than 30 words or three lines) are displayed in their own paragraph and they use a special quote style with a smaller typeface and indents left and right. No quotation marks are needed. Quotations within a displayed quotation use double quotation marks (“ ”).

The following five examples illustrate: (1) a long (displayed) quotation from the IPPC; (2) a long extract of the same passage faithfully reproducing the paragraph format of the original (as would normally be done in formal documents); (3) the same long but incomplete extract in a less formal but more readable format without the special paragraphing; (4) a short quotation within a sentence; and (5) a shorter summary in indirect speech. Note that square brackets are used at the end of the third example to clearly separate the Article reference from the displayed quotation, whereas normal curved parentheses are correct in the fourth example¹⁸.

(1) Article VII.1 of the IPPC makes the following provisions in relation to imports:

With the aim of preventing the introduction and/or spread of regulated pests into their territories, contracting parties shall have sovereign authority to regulate, in accordance with applicable international agreements, the entry of plants and plant products and other regulated articles and, to this end, may:

- (a) prescribe and adopt phytosanitary measures concerning the importation of plants, plant products and other regulated articles, including, for example, inspection, prohibition on importation, and treatment;
- (b) refuse entry or detain, or require treatment, destruction or removal from the territory of the contracting party, of plants, plant products and other regulated articles or consignments thereof that do not comply with the phytosanitary measures prescribed or adopted under subparagraph (a);
- (c) prohibit or restrict the movement of regulated pests into their territories;
- (d) prohibit or restrict the movement of biological control agents and other organisms of phytosanitary concern claimed to be beneficial into their territories.

¹⁸ SC 2014-11, agenda item 4.3.

(2) In relation to imports the Convention's provisions of Article VII.1 include the following:

With the aim of preventing the introduction and/or spread of regulated pests into their territories, contracting parties shall have sovereign authority to regulate ... the entry of plants and plant products and other regulated articles and, to this end, may:

[...]

- (c) prohibit or restrict the movement of regulated pests into their territories

(3) The Convention's provisions in relation to imports include the following:

With the aim of preventing the introduction and/or spread of regulated pests into their territories, contracting parties shall have sovereign authority to regulate ... the entry of plants and plant products and other regulated articles and, to this end, may ... prohibit or restrict the movement of regulated pests into their territories ... [Article VII.1(c)]

(4) The IPPC says, "With the aim of preventing the introduction and/or spread of regulated pests into their territories, contracting parties ... may ... prohibit or restrict the movement of regulated pests into their territories" (Article VII.1(c)).

(5) Article VII.1(c) of the IPPC says that, with the aim of preventing the introduction and/or spread of regulated pests into their territories, contracting parties may prohibit or restrict the movement of regulated pests into their territories.

Indirect quotations such as example (5) should be as scrupulous as quotations in their treatment of the source text. The example above summarizes but does not stray from the words of the Article and is sufficiently referenced at the beginning of the sentence. If it had not specified which Article of the Convention, an in-text reference or footnote with reference would have had to have been included to adequately attribute the indirect quotation.

15. References to Documents, ISPMs and IPPC

A bibliography is a list of publications the author has used in their study for the preparation of the document, but not necessarily to the extent that these need to be quoted or referenced in the document. A bibliography contains entries that may or may not be referenced in the text.

A *References* section contains a list of the sources of all references and quotations cited in the text.

Component documents (supplements, annexes, appendixes) list only the references that are not included in the *References* section of the core document. References may be included in the component document during consultation periods for easy reference, but they will be deleted following adoption if they are listed in the core text of the standard.

15.1 Bibliographic style

When preparing lists of references and bibliographies, IPPC style closely follows FAO style. Points to note are listed below, followed by examples. For style matters not covered here, refer to [FAO style](#).

Lists of references are presented in alphabetical order; then alphabetical order of co-authors (no distinction is made between the number of co-authors); then chronological order.

Authors are referenced by last name and initials (with initials separated by full points but no spaces). Author names appear in bold. In contrast, for publications with editors as well as authors, the editor names are given with initials first.

Use "&" between the names of the last two authors (or editors) in the reference list but use "and" in the text citations.

When two publications from the same author and year are cited, distinguish them by adding a letter after the year. List such publications in the order in which they are cited in the text.

When no date is available (e.g. for Internet publications), add "n.d." ("no date").

Book and monograph titles are in sentence case (initial capital, lower case) and italics.

Where the reference is to a booklet or monograph that is part of a wider series of technical publications, the title is italicized, but the overall series of documents is not.

Square brackets are used around titles that have been translated from another language and (for example) “(in Russian)” is added at the end of the reference to indicate the original language. However, the language does not have to be indicated as such when the title has not been translated and is presented in the original language.

Journal titles are in title case and italics; journal article titles are in sentence case and Roman.

For journals, the volume number is always given. The issue number, given in parentheses, is optional.

Page extents should be given for cited chapters. En dashes are used for page ranges, which are not elided. The total page extent of a book, monograph or conference proceedings should also be given, if known.

The publisher of books and monographs should always be given. The publisher of conference proceedings and Internet documents should also be given, if known. In the case of a corporate author, it is not necessary to repeat the full name of the organization as publisher, although it should be given in parentheses after the author name if it is not well known. Where the place of publication is in the United States of America, give the state (normally abbreviated) instead of the country.

Examples of bibliographic styles:

Books

Desvignes, J.C. 1999. *Virus diseases of fruit trees*. Paris, CTIFL, Centr'imprint. 202 pp.

Parts of books, proceedings

Olmos, A., Capote, N., Bertolini, E. & Cambra, M. 2007. Molecular diagnostic methods for plant viruses. In: Z.K. Punja, S. DeBoer & H. Sanfacon, eds. *Biotechnology and plant disease management*, pp. 227–249. Wallingford, UK, CABI. 574 pp.

Katsoyannos, B.I. 1983. Captures of *Ceratitidis capitata* and *Dacus oleae* flies (Diptera, Tephritidae) by McPhail and Rebell color traps suspended on citrus, fig and olive trees on Chios, Greece. In: R. Cavalloro, ed. *Fruit flies of economic importance*. Proceedings of the CEC/IOBC International Symposium, Athens, November 1982, pp. 451–456.

Monograph in series

FAO. 2006b. *Responsible management of planted forests: Voluntary guidelines*. FAO Planted Forests and Trees Working Paper FP37E. Rome, FAO. xi + 73 pp.

Conferences, meetings, programmes

IAEA (International Atomic Energy Agency). 1996. *Standardization of medfly trapping for use in sterile insect technique programmes*. Final report of Coordinated Research Programme 1986–1992. IAEA-TECDOC-883. Vienna, IAEA.

Works in languages other than English, with title translated into English

Guo, Q.X. & Huang, K.H. 1992. [Identification of seedlings of *Sorghum halepense* and its relative species.] *Plant Quarantine*, 6: 333–334 (in Chinese).

Journal article with volume number and page range

Thomas, D.B. 2003. Nontarget insects captured in fruit fly (Diptera: Tephritidae) surveillance traps. *Journal of Economic Entomology*, 96(6): 1732–1737.

Online journal article with DOI instead of volume number and page range

Armendáriz-Toledano, F., Niño, A., Sullivan, B.T., Kirkendall, L.R. & Zúñiga, G. 2015. A new species of bark beetle, *Dendroctonus mesoamericanus* sp. nov. (Curculionidae: Scolytinae), in Southern Mexico and Central America. *Annals of the Entomological Society of America*, doi:http://dx.doi.org/10.1093/aesa/sav020.

Other documents published on the Internet

USDA (United States Department of Agriculture). 2004. *Minimum sanitation protocols for offshore geranium cutting production*. APHIS-PPQ Pest Detection and Management Programs. 27 pp. Available at http://www.aphis.usda.gov/plant_health/plant_pest_info/ralstonia/downloads/ralstoniaworkplan.pdf (last accessed 2 May 2011).

Websites

FAO. n.d. About FAO. Available at <http://www.fao.org/about/en/> (last accessed 21 March 2017).

With respect to links to documents posted on the Internet and websites, note that long URLs whose text does not allow line breaks may result in an odd word spacing in the normal justified style of IPPC documents. A soft return (shift+return) may be inserted manually at a suitable point in the URL, preferably after a slash, as was done at “downloads/” in the USDA reference above.

When giving the URL for IPPC documents, give the generic URL (without “en”, “fr”, etc.; first example below) unless the document is only available in one language (second example below):

<https://www.ippc.int/publications/622/>

<https://www.ippc.int/en/publications/132/>.

Main points of difference from FAO style:

Journal title. FAO style allows the use of either full journal titles or abbreviated titles (e.g. *Citrus Ind.*). The journal names used in IPPC documents should always be given in full. (Readers of ISPMs will include non-experts in the technical field, who may be unfamiliar with some journal titles.)

Internet documents. FAO style adopts a different style regarding “available at” and the date last accessed, and “http://” is omitted when followed by “www”. IPPC style is as follows:

EPPO (European and Mediterranean Plant Protection Organization). 2013. EPPO Plant Quarantine Data Retrieval (PQR) system, 5.0. Paris, EPPO. Available at <http://www.eppo.int/DATABASES/pqr/pqr.htm> (last accessed 15 June 2015).

15.2 In-text citations

Where there are three or more authors of a reference, abbreviate to *et al.* in the text citation (but not in the *References* or *Bibliography*). This differs from FAO style, which abbreviates where there are *more* than three authors. Examples of in-text citation for references with various numbers of authors:

Desvignes, 1999; Gould and von Windeguth, 1991; Olmos *et al.*, 2007.

Add a thin space between *et* and *al.* (which are in italics).

Use 2012a, b (i.e. unlike in FAO style, do not repeat the year).

Standards adopted by national or regional plant protection organizations should be cited in the text using author and date in exactly the same way as for other references (e.g. “EPPO, 2016”), with the full reference given in the reference list.

Personal communications are included in the text in the following style: “J. Wright, personal communication, 2000”. They should not be included in the *References* section.

Cross-check references cited versus presence in the *References* section.

Note that in diagnostic protocols the in-text references are listed chronologically; in all other documents they are listed alphabetically as in the above example¹⁹. In diagnostic protocols, references in the same year by different authors are listed alphabetically.

¹⁹ SC 2014-11, agenda item 4.3.

15.3 References to IPPC documents and topics

References section

In ISPMs, ISPMs that are cited in the text are not listed in the *References* section; instead, a general reference to ISPMs is added in the *References* section²⁰:

The present standard refers to ISPMs. ISPMs are available on the International Phytosanitary Portal (IPP) at <https://www.ippc.int/core-activities/standards-setting/ispm>.

The present annex may refer to ISPMs. ISPMs are available on the International Phytosanitary Portal (IPP) at <https://www.ippc.int/core-activities/standards-setting/ispm>.

For references in other documents (and external publications), ISPMs should be referenced in the following manner (note that ISPM 5 is referenced without a year as it is updated almost yearly):

- Adopted ISPMs and approved specifications:
 - ISPM 3.** 2005. *Guidelines for the export, shipment, import and release of biological control agents and other beneficial organisms*. Rome, IPPC Secretariat, FAO.
 - ISPM 5.** *Glossary of phytosanitary terms*. Rome, IPPC Secretariat, FAO.
 - Specification 1.** 2001. *Review and updating of the Glossary of Phytosanitary Terms*. Rome, IPPC Secretariat, FAO.
- Draft ISPMs:
 - ISPM [X].** [20--]. Draft. [Title]. Rome, IPPC Secretariat, FAO.
- Annexes and appendixes:
 - ISPM 11. Annex 1.** *Comments on the scope of the IPPC in regard to environmental risks* [(adoption year)]. Rome, IPPC Secretariat, FAO.
 - ISPM 27. Annex 10.** *Diagnostic protocol for Bursaphelenchus xylophilus* (2016). Rome, IPPC Secretariat, FAO.
 - ISPM 28. Annex 12.** *Irradiation treatment for Cylas formicarius elegantulus* (2011). Rome, IPPC Secretariat, FAO.
 - ISPM 12. Appendix 1.** *Electronic phytosanitary certificates, information on standard XML schemes and exchange mechanisms* (2014). Rome, IPPC Secretariat, FAO.

References to IPPC publications other than ISPMs, specifications and CPM recommendations should follow the same format as for non-IPPC publications, with FAO as the corporate author (except for the Convention itself, for which the corporate author is IPPC (see later in this section)):

FAO. 2015. *Managing relationships with stakeholders: A guide to managing stakeholder relations for national plant protection organizations*. Rome, IPPC Secretariat, FAO. 55 pp. Available at <https://www.ippc.int/en/publications/86040/> (last accessed 9 January 2019).

Note that the Required citation at the top of the copyright page takes a different format to that above (see the SOP for the copyright disclaimer, currently in preparation, for further details):

Required citation:

FAO. [Year of publication]. [Title of publication]. [Series]. Rome. Published by FAO on behalf of the Secretariat of the International Plant Protection Convention (IPPC). [XX] pp. Licence: CC BY-NC-SA 3.0 IGO.

In text of ISPMs or other IPPC documents

In text, an ISPM is mentioned with its number; the year is not mentioned²¹. The title is included in parentheses at first mention, written in italics. Because titles of DPs and PTs often consist only of the scientific names of the pests they cover, the titles are not listed in italics to allow for the scientific names to be correctly listed in italics. For consistency, all annexes or appendixes are referenced in this way.

ISPM 2 (*Framework for pest risk analysis*)

²⁰ SC 2009-11, paragraph 38 and Appendix 7; modified by SC 2014-11 agenda item 4.3 (replacement of standards).

²¹ The year is not necessary because following the “revoking of standards procedure” (2015) there is only one version of each ISPM in effect.

ISPM 9, ISPM 11 and ISPM 14 [example of several ISPMs mentioned together: do not use “ISPMs 9, 11 and 14”]

DP 1 (*Thrips palmi* Karny)

PT 12 (Irradiation treatment for *Cylas formicarius elegantulus*)

Annex 3 (Phytosanitary procedures for fruit fly (Tephritidae) management) to ISPM 26

Specification 51 (*Minimizing pest movement by sea containers and conveyances in international trade*)

in an annex to ISPM 26, in an appendix to ISPM 27 [example of reference to a document component]

adopted diagnostic protocol for *Plum pox virus* as Annex 2 to ISPM 27

in Annex 1 of this standard, see Appendix 2 of ISPM 18 (ISPM 18, Appendix 2)

but in the Annex to the Convention [a single unnumbered annex; as worded in the IPPC]

Draft ISPMs and specifications are referenced with their topic number:

Draft ISPM on *Minimizing pest movement by sea containers* (2008-001)

Draft DP for *Bursaphelenchus xylophilus* (2004-016)

Draft PT Irradiation for *Ostrinia nubilalis* (2012-009) [note that there is no preposition between “PT” and the actual treatment. “PT” is added only to identify that the title relates to a PT, and not to another type of standard, but the treatment title itself is a type of PT and therefore cannot be a “PT on/for”.]

Draft specification on *Guidance on pest risk management* (2014-001).

Topics

Topics may be referred to in contexts where there is no mention of the draft ISPM or specification; for instance when related to an EWG. Topics must have their number listed in parentheses after the title. On cover pages (e.g. for reports), the topic number should not be included. The topic title is listed in italics:

EWG on *Minimizing pest movement by sea containers* (2008-001).

Referring to sections of ISPMs

Cross-references to sections in other ISPMs should be avoided where possible.

15.4 Referring to the IPPC

The following styles may be used to refer to the Convention:

- in the References section of a document:
IPPC. 1997. *International Plant Protection Convention*. Rome, IPPC Secretariat, FAO.
- in the text of a document:
 IPPC (as an abbreviation)
 International Plant Protection Convention (in full).

Note that no year is necessary when the IPPC is mentioned or cited in the text because there is only one Convention in effect. However, care must be taken in reading the text of early ISPMs where the differing 1979 text of the IPPC may have been applicable.

Note that in general text the names of international conventions and agreements are not treated as a publication title so italics are not used.

Articles of the IPPC use a capital for “Article” and may be referenced in the following formats:

Article I of the IPPC, Article VII.2(a)
 Article VIII.1(c) and VIII.2
 Article VII.2(b), VII.2(d) and VII.2(i)
 Articles VIII.1(c) and IX.

If references to Articles are linked to an indirect quotation or summarized information, the following formats may be used (note the use of normal curved parentheses if the Article reference follows the quote):

details of official control programmes should be published and transmitted to any contracting party that may be directly affected (Article VII.2(b)).

There is only one annex, which is unnumbered, to the IPPC. The usual form (as used in the Convention) is “in the Annex to the Convention”.

When the reference is to the IPPC Secretariat, “IPPC” alone must not be used. “Secretariat” may be used alone, when it has been previously specified at first mention.

Quoting directly from the IPPC

If Articles are linked with a quotation, the following formats are used:

“Contracting parties shall not require phytosanitary measures for non-regulated pests” (Article VI.2).

In accordance with Article VI.2, “Contracting parties shall not require phytosanitary measures for non-regulated pests.”

The surveillance of growing plants, including both areas under cultivation (*inter alia* fields, plantations, nurseries, gardens, greenhouses and laboratories) and wild flora, and of plants and plant products in storage or in transportation, particularly with the object of reporting the occurrence, outbreak and spread of pests, and of controlling those pests, including the reporting referred to under Article VIII paragraph 1(a) ... [Article IV.2(b)].

The last example above is a displayed quotation and so square brackets are used. See section 14 for further guidance on quotations.

16. Tables and Figures

Figures include photos, line drawings and flow charts.

All tables and figures should be referenced in the main text of the document and be numbered in the order in which they are referred to in the text.

Figure citations are not abbreviated (i.e. “Figure” not “Fig.”, even in parentheses). Citation of multiple figures takes the form “Figures 18 to 20” (not 18–20) and “Figures 2(a) and 3(a)” (with capitalization of the part label following the style used in the caption and figure itself).

The position of tables should be close to their in-text citations.

The position of figures should be close to their in-text citations and preferably at the top of a page. (In DPs with many figures, they are sometimes collated in a *Figures* section at the end of the document.)

16.1 Tables

A table’s caption is positioned above the table. It is presented in sentence case but does not end with a full stop unless it comprises more than one sentence. The caption identifier is presented in bold and with a full stop (e.g. “**Table 1.**”).

Column headings are in sentence case.

In the table cells, numerical entries are aligned right or centred, depending on the data. Text entries are aligned left. Text entries are in sentence case but without a full stop unless they comprise more than one sentence.

Table notes should be indicated with symbols (e.g. †, ‡) rather than Arabic numerals, as they may otherwise be confused with the footnotes in the text or with data in the table cells. Table notes restart for every table.

16.2 Figures

A figure's caption is positioned below the figure. It is presented in sentence case and ends with a full stop. The caption identifier is presented in bold and with a full stop (e.g. "**Figure 1.**").

In the caption, parts of figures are presented in parentheses and follow capitalization (i.e. (a) or (A)) of the part labels in the figure itself.

For plates consisting of several figures, each with a figure number, the individual figure numbers of the plate (but not any parts of each figure) are presented in bold within the caption.

Figure credits

Figures that have been reproduced from a previously published source should have a short-form citation in the caption, and the corresponding bibliographic entry should appear in the *References* section. The figure number and the page number it appears on in the original source should be given if known (in the form "Smith, 2015, fig. 7, p. 113"). Permission must be sought from the copyright holder to use the figure, and any special permissions text requested by the copyright holder recorded.

Photos or drawings acquired specially for the document (not published elsewhere) from an individual or a photo library should have an attribution under the caption, noting permissions, if required. For example:

Photo courtesy E. Feichtenberger, Instituto Biológico, Sorocaba, Brazil.

(for multiple part photos use the format "Photos courtesy (a) [name]; (b) [name]; and (c) [name].")

Canadian Food Inspection Agency, reproduced with permission.

FAO photo/19872.

Reproduced from Crop Protection Compendium, © CAB International.

Note that *photo* is an accepted word in its own right, and not just an abbreviation of *photograph*.

Figure credits should be set in italics. They are normally on a separate line rather than running on from the preceding part of the caption.

17. Word List

This section lists some words commonly used in IPPC documents where there may be doubts regarding correct spelling. ISPM 5 (*Glossary of phytosanitary terms*) should be consulted for correct phytosanitary terminology (e.g. "bark-free wood" not "wood free from bark", or "pest risk" to be used in the singular).

Most spellings are according to FAO style, which defers to the latest online edition of the [Oxford English dictionary](#). Those marked with "(pref.)" are currently preferred choices where there is no direct guidance in FAO style or the *Oxford English dictionary* and varying options (e.g. whether to compound or hyphenate) are used within FAO documents, dictionaries and scientific literature.

acknowledgement

ad hoc (not italicized, not hyphenated if used adjectivally)

adviser

air conditioning

air-dried (adj.); air-dry (v.)

amend (ISPMs, supplements, annexes and appendixes are "amended")

amendment (affects a specific part or parts of the document)

among (not "amongst")

analyse

annex (not "annexe"), pl. annexes (lower case when generic, cap when in title *Annex I*)

appendix, pl. appendixes
Arabic (abbrev. Ar)
backup (n., adj.); to back up (v.)
before (pref., avoid “prior to”)
broadleaved
build-up (n.); to build up (v.)
by-product
cannot (not “can not”)
Celsius (not “centigrade”)
checklist (but note “flow chart”)
Chinese (abbrev. Zh)
collective nouns: may take either a singular or plural verb, according to sense (e.g. the number of books ordered is large; a large number of books have been ordered)
coloration
colour
compare (abbrev. cf.)
contracting party (lower case)
cooperation
coordinate
cost-effective (adj.)
cost-effectiveness (n.)
cross-contamination
cross-react, cross-reaction, cross-reactivity
data (plural), databank, database, data set
deep wood borer, dry wood borer (not hyphenated)
dose–response curve (en dash not hyphen)
eliminate (supplements, annexes and appendixes)
email
end use
end point
English (abbrev. En)
expert working group (lower case when generic, initial caps on each word when specific; abbrev. EWG)
favour, favourable, favourite
field-grown, glasshouse-grown, greenhouse-grown plants
focusing, focused
flow chart (but note “checklist”)
follow-up (n., adj.); follow up (v.)
footbath
for instance (abbrev. e.g.; not italicized, not followed by a comma, not followed by “etc.”)
forum (pl. fora)
French (abbrev. Fr)
fresh water (n.); freshwater (adj.)
fruit fly pest free area (FF-PFA) (full term not hyphenated, acronym hyphenated; applies also to similar terms, e.g. fruit fly free place of production (FFF-POP), fruit fly free production site (FFF-PS))

fruit-bearing branch, plant (hyphen)
 geographical (not “geographic”)
 glasshouse (cf. “screen house”)
 half-life
 hours (abbrev. h)
 hydrolyse
in situ, in vitro, in vivo, inter alia (italicized; not hyphenated if used adjectivally)
 Internet
 IPPC Secretariat (use only “Secretariat” alone, when this has been specified at first mention)
 ISPM(s), draft ISPM
 -ization, -ize, -izing (but note “analyse”, “catalyse”, “hydrolyse” and “supervise”)
 judgement (but “judgment” in legal cases)
 kiln-dried (adj.); kiln-dry (v.)
 land use (n.), land-use (adj.)
 life stage (n.); life-stage (adj.)
List of topics for IPPC standards (initial cap only, italics)
 log in / on (v.; both prepositions can be used as equally correct)
 log out / off (v.; both prepositions can be used as equally correct)
 member consultation: no longer used; use “consultation” instead
 meter (object that measures), metre (unit of measure)
 microtube (and other micro- compounds closed up, including “microorganism”)
 midrib
 minutes (abbrev. min)
 multipanel (and other multi- compounds closed up unless followed by “i” e.g. “multi-institutional”)
mutatis mutandis (italicized)
 n/a = *either* not available *or* not applicable (where possible, specify which of these it is)
 national plant protection organization (lower case when generic, initial caps when specific; abbrev. NPPO)
 non-breaking spaces between all numbers and units
 non-compliance (and other non- compounds usually hyphenated, but note “nonconformity”)
 north-east, north-eastern, north-west, north-western
 offcut
 Officer (when qualified as in “Capacity Development Officer”)
 organize, organization (unless a specific name defined otherwise, e.g. Organisation for Economic Co-operation and Development)
 overwinter(ing) (no hyphen)
 packing house (n.), packing-house (adj.)
 panel (lower case *p* when no reference to a specific panel; initial cap when referring to a specific panel e.g. Technical Panel on Diagnostic Protocols)
 parapheromone (and other para- compounds closed up)
 percent (in text), % (in tables) (however, % is permissible in technical text)
 pest free area
 presence (not “occurrence” of a pest)
 posteroangular (pref.)

posteromarginal (pref.)
predetermine (and other pre- compounds closed up except where confusion might arise, e.g. pre-empt, pre-set, pre-test)
rainwater
reapply (and other re- compounds closed up except when followed by “e”, e.g. re-export, or where necessary to distinguish meaning, e.g. recount/re-count, resort/re-sort, reform/re-form)
record keeping
regional plant protection organization (lower case when generic, initial caps when specific; abbrev. RPPO)
revision (affects entire document)
revoke (ISPMs)
Russian (abbrev. Ru)
screen house (pref., cf. “glasshouse”)
seconds (abbrev. s)
sensu lato (abbrev. *s.l.*), *sensu stricto* (abbrev. *s.s.*)
setback (n.); to set back (v.)
set-up (n.); to set up (v.)
side effect
south-east, south-eastern, south-west, south-western
Spanish (abbrev. Es)
specification (lower case when generic, cap when in title *Specification 51*)
spelled (not “spelt”)
stand-alone (adj.); to stand alone (v.)
Standard setting procedure (initial cap, lower case)
Standard setting process (initial cap, lower case)
Standards Officer
stereomicroscope
steward (lower case when generic, cap when referring to a specific person *the Steward*)
subnational (and other sub- compounds usually closed up unless followed by “b”, e.g. sub-basin; but note sub-Saharan)
substantial concerns commenting period (lower cap, initial cap when specific *Substantial concerns commenting period 2013*)
sulphur (not “sulfur”)
supersede (not “supercede”)
survive (not “persist”)
Technical Panel on XXX (initial caps when specific, abbreviated TPXX; lower case when generic *the technical panel did not...*)
test tube (n.); test-tube (adj.)
that is (abbrev. i.e.)
trace-back
versus (not italicized; abbrev. “vs”)
website, web page
while (not “whilst”)
wood borer, wood wasp
wood-boring beetle, moth, wasp

work plan

Additional words and phrases used in diagnostic protocols

1 kilobase (kb) band (no hyphen)

1% blocking solution (w/v) or (v/v)

1.5 U Taq DNA polymerase, AMV reverse transcriptase (U is standard unit for enzymes, and note Taq DNA polymerase is not italics and includes “DNA”)

1:1 (w/v) (no spaces)

10 mL “was” (singular) not 10 mL “were”

10× magnification, 2× washing buffer (i.e. concentration) (no space)

15 000 g (italics) not 15 000 × g

15 mL sterile water (not 15 mL of sterile water)

588 base pair (bp) amplicon (no hyphens)

6th tergite (not sixth, fifth, etc.)

brand or company names do not use all caps even if given as such on website (e.g. Qiagen not QIAGEN)

c.f.u. and r.p.m. (full points as for all lower case abbreviations like e.g. and i.e.)

country for manufacturers: *do not* list this

coverslip not cover slip

crossvein (no hyphen)

Ct = cycle threshold (PCR)

CT = concentration–time product

“cycling parameters” preferred for PCR rather than “reaction conditions”

days, weeks, years are not abbreviated: use words not numbers with them (i.e. one year, three days)

DNA, RNA, dNTPs (no need to spell out, but do define ribosomal (r)RNA and mitochondrial (mt)DNA)

EcoRI, *HindIII* and similar

extension, elongation (PCR): either is acceptable, provided there is consistency within the document

first, third, etc. (not 1st, 3rd) instar

GenBank accession number (cap G cap B)

L-arabinose and D-fructose (small initial caps)

master mix

molar concentration should be consistent in each DP (i.e. either 10 mM or 10 mmol/litre, not both)

Mycobank references are in the format Mycobank MB#123456

nucleotide (nt)

PBS, not PBS buffer

per (use solidus (/) for per, not the negative index)

phenol–chloroform (en dash not hyphen)

plant “tissue” is taken from a specific part of the plant whereas plant “material” is more general

polymerase chain reaction (PCR) (no caps when spelled out)

present tense: generally speaking, protocols should be described in present tense but not imperative mood

primer sequences: present in the format:

Pospi1-forward (F): 5′-GGG ATC CCC GGG GAA AC-3′ (nucleotide (nt) 86–102)

proteinase-K

ribonuclease (RNase) A

real-time (when used adjectivally in relation to PCR)

ring test (no hyphen)

Strains A, B and C (not “A”, “B” and “C”)

TaqMan

tissue print-ELISA, tissue print real-time RT-PCR (no hyphen between tissue and print)

Tris-HCl (cap)

Triton X-100 (cap)

Tween 20 (cap, no hyphen)

[additions welcomed]

IPPC

The International Plant Protection Convention (IPPC) is an international plant health agreement that aims to protect cultivated and wild plants by preventing the introduction and spread of pests. International travel and trade are greater than ever before. As people and commodities move around the world, organisms that present risks to plants travel with them.

Organization

- ◆ There are over 180 contracting parties to the IPPC.
- ◆ Each contracting party has a national plant protection organization (NPPO) and an Official IPPC contact point.
- ◆ Nine regional plant protection organizations (RPPOs) work to facilitate the implementation of the IPPC in countries.
- ◆ IPPC liaises with relevant international organizations to help build regional and national capacities.
- ◆ The Secretariat is provided by the Food and Agriculture Organization of the United Nations (FAO).



International Plant Protection Convention (IPPC)

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