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**Written reports from relevant international organizations - Report from
the Joint Food and Agriculture Organization / International Atomic Energy
Agency Division of Nuclear Techniques in Food and Agriculture**

Agenda item 14.3

Prepared by the Joint FAO/IAEA Division

English only

Report from the Joint Food and Agriculture Organization / International Atomic Energy Agency Division of Nuclear Techniques in Food and Agriculture to CPM-13 (2018)

1. The International Atomic Energy Agency (IAEA), in cooperation with the Food and Agriculture Organization of the United Nations (FAO) through its Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture (Joint FAO/IAEA Division), has actively supported the Secretariat of the International Plant Protection Convention (IPPC) since 2004 in the development and review of International Standards for Phytosanitary Measures (ISPMs) and its activities to improve phytosanitary capacity of IPPC Contracting Parties.
2. The Joint FAO/IAEA Division continued to support the IPPC Secretariat in 2017.
3. The *Technical Panel on Pest Free Areas and Systems Approaches for Fruit Flies* (TPFF) was supported in particular through the review of technical information related to the Reorganization and harmonization of fruit fly standards, which was presented to the Standards Committee in November 2017 and is now recommended to CPM-13 (2018). This included drafting a schematic and logical representation of the reorganization and leading discussions within the TPFF.
4. The *Technical Panel on Phytosanitary Treatments* (TPPT) was supported through the sponsorship, hosting and participation in the July 2017 TPPT meeting at IAEA Headquarters, Vienna Austria.
5. In further support of TPPT activities, the Joint FAO/IAEA Division has provided expertise and helped review supporting data related to ISPMs. The Joint FAO/IAEA Division is proud to have helped facilitate the successful adoption of eight treatments adopted as Annexes to ISPM 28 in 2017:
 - Cold treatment for *Ceratitis capitata* on *Citrus sinensis*
 - Cold treatment for *Ceratitis capitata* on *Citrus reticulata* × *C. sinensis*
 - Cold treatment for *Ceratitis capitata* on *Citrus limon*
 - Cold treatment for *Ceratitis capitata* on *Citrus paradisi*
 - Cold treatment for *Ceratitis capitata* on *Citrus reticulata*
 - Cold treatment for *Ceratitis capitata* on *Citrus clementina*
 - Vapour heat treatment for *Ceratitis capitata* on *Mangifera indica*
 - Vapour heat treatment for *Bactrocera tryoni* on *Mangifera indica*
6. In terms of development of technical materials to support the implementation of the ISPMs, upon the request of FAO and IAEA Member States the following materials were produced in 2017:
 - a. FAO/IAEA (2017). *Guideline for packing, shipping, holding and release of sterile flies in area-wide fruit fly control programmes, Zavala-Lopez JL, and Enkerlin WR, (eds.), Food and Agriculture Organization of the United Nations. Vienna, Austria. 140 pp*¹.
 - b. FAO/IAEA (2017). *Fruit Sampling Guidelines for Area-Wide Fruit Fly Programmes, Enkerlin WR, Reyes J and Ortiz G (eds.), Food and Agriculture Organization of the United Nations. Vienna, Austria. 45 pp.*²

¹ FAO/IAEA Guidelines: <http://www-naweb.iaea.org/nafa/ipc/public/Guideline-for-Packing-Sept2017.pdf>

² FAO/IAEA Guidelines: <http://www-naweb.iaea.org/nafa/ipc/public/fruit-sampling-guidelines.pdf>

³ FAO/IAEA Database: <https://nucleus.iaea.org/sites/naipc/IDCT/Pages/default.aspx>

7. A valuable resource in support of IPPC is our development, publication and maintenance of the new *International Database on Commodity Tolerance (IDCT)*³. This cost-free internet resource provides a technical summary with detailed references to appropriate information in the scientific literature dealing with commodity quality (mainly fruits and vegetables) and absorbed radiation dose when irradiation is used as phytosanitary treatments.
8. *Teamwork Award from FAO-AG Department to IPPC-FAO/IAEA Joint Team on the Fruit Fly Standards*. An award for exceptional teamwork was conferred on the cross-UN agency team consisting of staff from the Joint FAO/ IAEA) Division of Nuclear Techniques in Food and Agriculture, and staff from the Standard setting unit of the IPPC Secretariat. The award is an honour bestowed upon staff of the Agriculture and Consumer Protection Department of FAO who carry out activities through exceptional teamwork that have a major impact on meeting the UN Sustainable Development Goals and the FAO strategic objectives.
9. In terms of capacity building, the Joint FAO/IAEA Division has devoted part of its technical assistance delivery to regulatory aspects and facilitating the implementation of the ISPMs in developing countries through regional workshops and technical meetings. In 2017, an FAO/IAEA interregional course on “*Area-wide Integrated Pest Management of Native and Exotic Insect Pests* was conducted”, as were nine FAO/IAEA regional courses and workshops on:
 - a. “*Practical Use of GPS/GIS to Improve Management of Fruit Fly Trapping Networks*”
 - b. “*Free Open Source Software for Geographic Information System (GIS) and Data Management Applied to Fruit Flies in Southeast Asia*”
 - c. “*Establishment and Harmonization of Fruit Fly Trapping Surveillance Networks and Quality Control*”
 - d. “*Geographical Information Systems, Databases and Information Analysis*”
 - e. “*Identification of Non-native Fruit Flies of Quarantine Significance*”
 - f. “*Fruit fly Detection, Surveillance, and Databases and Data Analysis in Africa*”
 - g. “*Harmonization of Phytosanitary Measures for Fruit Fly Control Following Relevant International Standards on Phytosanitary Measures*”
 - h. “*Database for Plant Pests of Quarantine Significance for the Middle East*”
 - i. “*Quarantine and International Standards for Phytosanitary Measures for Fruit Flies in Southeast Asia*”.
10. The Joint FAO/IAEA Division organized the *Third FAO/IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques*. The conference was attended by 360 delegates from 81 countries, six international organization, and nine exhibitors. The Conference was structured into select plenary lectures, six theme-specific sessions with keynote addresses, 55 oral presentations, 206 posters and three panel discussions.