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

Agenda item 11.2.4

Prepared by Joint IAEA/FAO Division

English only

1. The International Atomic Energy Agency (IAEA), through its Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, has been actively supporting the Secretariat of the International Plant Protection Convention (IPPC) for the last eleven years to develop and review International Standards for Phytosanitary Measures (ISPMs) and to improve phytosanitary capacity of IPPC Contracting Parties.
2. The Joint FAO/IAEA Division has organized and funded the last six annual meetings of the IPPC *Technical Panel on Pest Free Areas and Systems Approaches for Fruit Flies* (TPFF), including the 2015 meeting on *Reorganization and harmonization of fruit fly standards*.
3. In 2015 the Joint FAO/IAEA Division has participated in the development of the adopted Annex 3 of ISPM 26 (*Phytosanitary procedures for fruit fly (Tephritidae) management*).
4. It also participated in the development and has been assisting with the stewardship of the draft ISPM on *Determination of host status of fruit to fruit flies (Tephritidae)*.

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5. In support of the *Technical Panel on Phytosanitary Treatments (TPPT)*, the Joint FAO/IAEA Division has provided technical expertise and helped review supporting data on fruit fly population response differences to nine “pending” phytosanitary treatments annexes to ISPM 28 (*Phytosanitary Treatments for Regulated Pests*). The ultimate goal is to facilitate the successful adoption of these cold treatments as soon as the results of this research can be reviewed by the TPPT. Also it has provided technical expertise and helped review supporting data to facilitate the successful adoption of 3 cold treatments in 2015 (PT16: Cold treatment for *Bactrocera tryoni* on *Citrus sinensis*; PT17: Cold treatment for *Bactrocera tryoni* on *Citrus reticulata* x *C. sinensis*; PT18: Cold treatment for *Bactrocera tryoni* on *Citrus limon*) as part of ISPM 28.

6. In terms of development of technical materials to support the implementation of the ISPMs, upon the request of FAO and IAEA Member States it produced the “*FAO/IAEA Guideline for packing, shipping, holding and release of sterile flies in area-wide fruit fly control programmes*”¹.

7. In addition a “*Manual of Good Practice in food Irradiation*” was published in 2015 as IAEA Technical Report Series No 481 and is freely available². The manual includes phytosanitary and sanitary applications as a post-harvest treatment, and is complimented with an online “eLearning” course on food irradiation. .

8. In terms of capacity building, the Joint FAO/IAEA Division has devoted part of its technical assistance delivery to regulatory aspects and the implementation of the ISPMs in developing countries through regional workshops and technical meetings:

- a) In 2015, an FAO/IAEA interregional course was held on “*Area-wide Integrated Pest Management of Native and Exotic Insect Pests*”, as well as four FAO/IAEA regional training courses on “*Fruit Fly Biocontrol in West Africa*”, “*Free Open Source Software for GIS and Data Management Applied to Fruit Flies in the Balkans and the Eastern Mediterranean*”, “*Fruit Fly Monitoring and Suppression Including MAT and SIT for Indian Ocean*”, and “*Quarantine and Pest Risk Analysis Applied to Fruit Flies in the Balkans and the Eastern Mediterranean*”.
- b) For 2016, two FAO/IAEA regional courses on “*Taxonomy and Identification of Fruit Fly Pest Species for Southeast Asia*” and “*Fruit Fly Detection, Surveillance and Area-Wide Integrated Pest Management for Balkans and Eastern Mediterranean*”.
- c) Additionally, the FAO/IAEA Joint Division supported a regional fruit fly training course in Brazil, which included lectures on the regulatory aspects of international fruit commercialization and implementation of area-wide insect pest control programmes.
- d) A workshop on “*Phytosanitary irradiation*” was organized in Mexico in 2015 and was attended by 88 participants from 13 countries of Latin America and the Caribbean. It was attended by traders, regulators, irradiation specialists, and manufacturers of irradiation equipment.

9. Technical and financial support provided to four participants at the meeting of the “*Phytosanitary Temperature Treatment Expert Group (PTTEG)*”⁴ in 2015 in South Africa; the report from this meeting is posted on the IPP³. This group has now broadened its mandate to cover other types of treatments and has changed its name to the *Phytosanitary Measures Research Group (PMRG)*.

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

² IAEA Technical Report Series No 481: <https://www.iaea.org/newscenter/news/new-iaea-guide-helps-developing-countries-improve-food-irradiation-practices>

³ Report of the August 2015 meeting of the PTTEG:

<https://www.ippc.int/en/liason/organizations/phytosanitarymeasuresresearchgroup/>