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Organization of the
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Organization



REPORT

11th FAO/WHO Joint Meeting on Pesticide Management

**9–12 October 2018
Rome, Italy**



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1. Introduction

The 11th FAO/WHO Joint Meeting on Pesticide Management (JMPM) was held at the FAO headquarters in Rome, Italy from 9 to 12 October 2018.

The JMPM was created in 2007 and advises FAO and WHO on the implementation of the FAO/WHO International Code of Conduct on Pesticide Management (the Code of Conduct) and on new developments, problems or issues deserving of attention in pesticide regulation and management. The JMPM members are drawn from the FAO Panel of Experts on Pesticide Management and the WHO Panel of Experts on Vector Biology and Control. Representatives of other international organizations such as UN Environment, the Organisation for Economic Co-operation and Development (OECD), pesticide and biopesticide producers' associations, and selected nongovernmental organizations (NGOs) involved in pesticide risk reduction are also invited to participate in meetings as observers. Secretariat support is provided jointly by FAO and WHO. The list of participants is attached as [Annex 1](#).

The 11th JMPM included: an update on activities of the joint Secretariat and participating organizations; a review of progress in the production of new JMPM guidelines; plans for continued work on and review of existing guidelines; plans for the next revision of the Code of Conduct; suggestions on emerging and priority issues and future directions; plans for a global support programme for pesticide compliance and enforcement; inputs to a planned report to be written by UN Environment on the environmental and health impacts of pesticides and fertilizers; and recommendations for future work.

2. Opening of the meeting

The opening session was coordinated by Mr Baogen Gu, Senior Agricultural Officer for Pest and Pesticide Management, FAO Plant Production and Protection Division. On behalf of FAO and as joint Secretariat of the JMPM, Mr Gu welcomed the FAO and WHO Panel members, members of the FAO and WHO Secretariat, and other meeting participants and observers to the 11th Session of the JMPM. Mr Rajpal Yadav, Scientist, Vector Ecology and Management Unit, WHO Department of Control of Neglected Tropical Diseases, also welcomed them on behalf of WHO. Mr Rémi Nono Womdim, Deputy Director for the FAO Plant Production and Protection Division, opened the meeting and welcomed the meeting participants. He expressed his appreciation for the work of the JMPM, which is helping smallholder farmers and economies around the world to meet the many challenges they face in producing safe and nutritious food.

3. Appointment of the chairperson and rapporteurs and adoption of the agenda

Ms Andrea Rother of the University of Cape Town, South Africa was nominated to chair the meeting and Ms Lilian Tornqvist of the Swedish Chemicals Agency was nominated to serve as the Co-Chair. Mr Michael Eddleston of the University of Edinburgh, Mr Tao Chuanjiang of the Chinese Ministry of Agriculture, and Ms Jeannie Richards, FAO consultant, were appointed Rapporteurs.

The meeting agenda was adopted and is provided as Annex 2. Minor adjustments to facilitate timing were made during the course of the meeting.

4. Meeting procedure

The FAO and WHO Secretariat informed the meeting that they had received Declarations of Interest from all the Panel members participating in the 11th Session of the JMPM. The Secretariat had reviewed these and concluded that no circumstances were disclosed that could give rise to a potential or reasonably perceived conflict of interest related to the subjects discussed in the JMPM.

5. Developments since the previous session of the JMPM

Reports on activities since the last JMPM were presented by FAO, WHO, UN Environment, OECD, the Pesticide Action Network (PAN), and CropLife International (CLI).

5.1 FAO

FAO activities carried out since the previous JMPM include: publishing guidelines for the registration of biological pesticides; promoting integrated pest management (IPM) through farmer field schools in Africa, Asia, the Caribbean, and the Pacific; publishing guidance for integrated management of the fall armyworm (*Spodoptera frugiperda*); setting 67 quality standards for 45 chemical pesticides and microbial pest control agents; proposing more than 700 new maximum residue levels for pesticides on food involving 67 active ingredients; supporting countries in implementing the Code of Conduct, e.g. by developing laws and regulations, building capacity in registration, phasing out highly hazardous pesticides (HHPs), managing obsolete pesticide stocks and empty containers, and promoting regional collaboration; and participating in global coalitions and conventions on sound chemical management including the Inter-Organization Programme for the Sound Management of Chemicals (IOMC), the Strategic Approach to International Chemicals Management (SAICM), and the Basel, Rotterdam, and Stockholm (BRS) Conventions.

FAO activities also include work coordinated under the Rotterdam Convention, which establishes a prior informed consent procedure for certain hazardous pesticides and other chemicals in international trade, as well as work carried out by the FAO regional offices, as reported by the FAO Asia-Pacific office, the FAO office for Africa and the FAO office for Europe and Central Asia.

5.2 WHO

Activities reported by WHO include those undertaken by the Vector Ecology and Management Unit of the Department of Control of Neglected Tropical Diseases, the Global Malaria Programme, WHO Regional Offices and the International Programme on Chemical Safety. The WHO activities include: creation of a system for prequalification of vector control products; policy setting for innovative tools for vector control; development of Good Laboratory Practice (GLP) sites in Asia, Europe, and Pan America; technical assistance for vector control and management of insecticide resistance; other capacity strengthening activities; publication of guidelines and standards; collection of baseline information on pesticide management practices by Member States; and emergency response to disease outbreaks. The WHO Regional Offices are responsible for regional policy setting and country support activities for vector surveillance and control, integrated vector management (IVM) including pesticide management and insecticide resistance monitoring. The work of the International Programme on Chemical Safety includes: an update of the WHO Recommended Classification of Pesticides by Hazard with collation of data, addition of fumigants, and amendment of obsolete pesticides; revision of human health risk assessment models for vector control pesticides including updating of existing models and development of new ones; publication of a roadmap to enhance health sector engagement in chemicals management and SAICM; development of a resource booklet for pesticide registrars and ministries of agriculture on preventing suicide; and publication of a policy brief on housing improvements for vector control and sustainable development.

5.3 UN Environment

UN Environment is preparing to write a report requested by the third UN Environment Assembly (UNEA 3) on the environmental and health impacts of pesticides and fertilizers and ways to minimize them. A first consultative meeting to seek input and advice from the JMPM and other experts would be held at the end of this JMPM meeting. Participants would be asked to discuss the annotated table of contents for the report, the provisional list of stakeholders and contributors, useful reviews/reports/data sources, and a timeline for drafting the report.

Other recent UN Environment activities related to the JMPM include: a global monitoring of persistent organic pollutants (POPs) in water and air under the Stockholm Convention, with results likely to be available by early 2019; a biennial survey of public health and vector control; and support to the Global Alliance on DDT including implementation of its roadmap.

5.4 OECD

OECD activities on pesticides and biocides since the previous JMPM include: technical work on the determination of biocide efficacy, the evaluation of other criteria, and exposure assessment; work sharing among countries; risk reduction best practices; monitoring of emerging issues; publication of guidance and a seminar report on biopesticides; and guidance related to minor uses. OECD is also initiating work on case studies of country experience in conducting joint pesticide reviews. Planned future activities will focus on biopesticides and minor uses, pollinator safety, RNAi-based products, pesticide and fertilizer trends, and policy responses across the OECD; compliance and enforcement; and illegal trade in pesticides.

5.5 Pesticide Action Network (PAN)

PAN's recent activities have focused on reducing pesticide exposure and poisoning, promoting action to stop the use of HHPs, supporting farmers in the adoption of agro-ecological methods; documenting pesticide poisoning incidents worldwide; promoting adherence to the Code of Conduct; and observing compliance with the Code of Conduct.

5.6 CropLife International (CLI)

CLI's recent activities in support of the Code of Conduct have focused on: support to SAICM and FAO priorities on pesticide management; awareness raising on HHP issues and guidelines; risk mitigation workshops; regulatory and pesticide management capacity-building; anti-counterfeiting; revision of the Code of Conduct e-learning tool; an initiative to promote mode of action labelling on pesticide products; partnership projects on IPM and responsible pesticide use; and a partnership with the United States Agency for International Development (USAID) to help farmers control the fall armyworm.

5.7 Discussion and recommendations

In the discussion that followed the presentations, it was recommended that:

- the JMPM should have the opportunity to review future updates to the WHO Recommended Classification of Pesticides by Hazard before publication;
- the JMPM should propose text about chronic toxicity for inclusion in the revision of the WHO Recommended Classification being prepared for publication by the end of 2018;
- WHO should continue to seek JMPM peer review of relevant draft guidelines (e.g. the guidelines on aircraft disinsection) before they are published;

- UN Environment should be invited to join the JMPM as a full member for pesticide management activities, and, to this end, the JMPM Secretariat should send a formal letter as soon as possible inviting UN Environment both to endorse the Code of Conduct and to join the JMPM;
- advice on international and national regulation of pesticides should be better coordinated by international organizations, using mechanisms provided by the IOMC¹;
- the JMPM should review the legal framework on illegal trade of pesticides being developed by the OECD to consider how it could be used in non-OECD countries.

The JMPM briefly referred to the recent reports by the United Nations Special Rapporteur on the Right to Food and the Special Rapporteur on Toxics² and agreed to discuss the issues raised in the reports at a later meeting.

6. Review of new guidelines in advanced stage of development

6.1 Guidelines on personal protection when handling and applying pesticides

The JMPM discussed the revised draft of the guidelines at length, reviewing a number of issues raised during recent commenting rounds and noting the difficulty of providing guidance that is both simple enough to be followed in the “real world” and detailed enough to account for the different personal protective equipment (PPE), such as gloves and protective masks, needed for different pesticide applications (e.g. to take account of varying droplet size in sprays). The group asked the JMPM Secretariat to try to resolve these issues in consultation with outside independent technical experts, and to prepare a new draft of the guidelines for review by JMPM for endorsement by the end of the year. In particular, the JMPM recommended that:

- section 1.4 of the draft guidelines on types of PPE should be reviewed for technical accuracy by experts on the subject;
- a separate box or annex covering PPE should be included for biological pesticides;
- text on the “hierarchy of control” approach should be drafted for possible inclusion;

¹ The IOMC coordinates the policies and activities of its nine participating organizations involved in chemical management: FAO, WHO, OECD, the UN Development Programme (UNDP), UN Environment, the UN Industrial Development Organization (UNIDO), the UN Institute for Training and Research (UNITAR), the International Labour Organization (ILO), and the World Bank.

² The latter’s full title is Special Rapporteur on the implications for human rights of the environmentally sound management and disposal of hazardous substances and wastes. He is informally known as the Special Rapporteur on Toxics.

- text on exemption of import taxes on PPE should be added to the policy section; and
- national and international pesticide companies should lead a process to ensure that correct PPE is available at an affordable price at the time of pesticide purchase.

6.2 Guidelines on the management of household pesticides

The JMPM reviewed the latest draft outline of the guidelines and discussed a number of outstanding issues including: clarification of the scope of the document; inclusion of concentrated vs ready-to-use products; products containing nano-pesticides; and the CMR approach adopted in Europe, which identifies substances classified as carcinogenic (C), mutagenic (M), or toxic for reproduction (R). In conclusion, the JMPM recommended:

- that household pesticides be registered as ready-to-use products not requiring dilution;
- that HHPs should not be registered for household pest control use by non-professional pesticide users, and that highly toxic rodenticides should be registered for rodent control in households and buildings only by professional pest control operators; and
- that nano-pesticides should not be registered for non-professional household use at present due to the lack of scientific safety data.

To prepare the next draft of the guidelines, the JMPM agreed that insect repellents should be included in the scope of the guidelines but that other pesticide products applied directly on human or animal skin should be excluded, as they are regulated by agencies other than those responsible for pesticides. The JMPM also agreed that long-lasting insecticidal nets should not be included in the guidelines as they are covered by other vector-control WHO guidance. On a related issue, the JMPM agreed that antibiotics used for human and animal health should not be registered as pesticides.

The JMPM agreed that the working group on these guidelines, led by Sandhya Kulshrestha, with Tao Chuanjiang, Somchai Preechathaveekid, Andrea Rother, Meriel Watts, Malverne Spencer, and the JMPM Secretariat, would stay the same.

6.3 Guidelines on inspection of pesticide importers, producers, distributors and retailers

At the JMPM's request the previous draft of the guidelines, covering both inspection and licensing, was split into two separate documents. The JMPM first reviewed the latest revision of the guidelines on inspection, recommended that drafting continue, and discussed new material that could potentially be added. This included:

- text on inspection of biological products (to be provided by the International Biocontrol Manufacturers Association, IBMA);

- a checklist of information to collect in inspections, tailored to each group targeted in the guidelines, with an additional question for retailers on whether they are aware of any poisoning incidents;
- text with technical information and advice to be provided to retailers (to be provided by FAO);
- text on coordination of inspections among government authorities (to be provided by FAO):
- text on how inspection of retailers could check the information and advice they give to farmers (to be provided by CLI along with their guidelines on retailer training); and
- graphics about routes of exposure and PPE, for posting in retail shops (to be provided by PAN).

The JMPM agreed that the working group on these guidelines, led by Lilian Tornqvist, with Richard Brown (CLI), Tao Chuanjiang, Michael Eddleston, Sandhya Kulshrestha, and Somchai Preechathaveekid, would stay the same.

6.4 Guidelines on licensing of pesticide distributors and retailers

The JMPM agreed to proceed with these guidelines as a separate document from the inspection guidelines (see section 6.3) and proposed that a working group be created. The FAO Secretariat (Carmen Bullon) was designated to lead the working group on behalf of the JMPM Secretariat, and Tao Chuanjiang, Gamini Manuweera (UN Environment), Meriel Watts (PAN), and Richard Brown (CLI) volunteered to participate as members.

The JMPM asked the working group to draft an annotated outline of the guidelines for review by the full JMPM, and to identify a consultant to write the document.

7. Review of existing guidelines

7.1 Guidelines on monitoring and observance of the Code of Conduct (2006)

The JMPM discussed the FAO guidelines published in 2006 to elaborate on Article 12 of the Code of Conduct, which focuses on monitoring and observance of the Code. The JMPM agreed that the guidelines needed to be reviewed and possibly revised to more closely link to Article 12 in the current version of the Code of Conduct (2014). The JMPM also agreed that the guidelines should stress the importance of national legislation on pesticide management, as it is national governments who have authority to monitor pesticide practices and to identify and act on violations of the Code of

Conduct, not the JMPM or its Secretariat. Michael Eddleston volunteered to prepare a draft revision of the Guidelines.

7.2 Guidelines on data requirements for the registration of pesticides (2013)

The JMPM reviewed the FAO proposal to update these guidelines and agreed to start the revision process, notably to ensure consistency with information in the Pesticide Registration Toolkit, to align the guidelines with current developments in pesticide evaluations worldwide, and to include guidance on minor changes in formulations, e.g. in co-formulants.

7.3 Guidelines on good labelling practice for pesticides (2015)

The JMPM recommended that these guidelines undergo a minor revision to reflect concerns about long-term effects and the need to include chronic hazards on pesticide labels. The JMPM also recommended that the pesticide industry continue its initiative to place mode of action information on pesticide labels.

7.4 Guidelines on good practice for aerial application of pesticides (2001)

The JMPM recommended that the guidelines be revised to cover new technological developments (e.g. use of drones and geographical information systems, GIS) in this area and to include use of public health pesticides for vector control in its scope. The meeting also recommended a review of existing guidance or publications (e.g. in South Africa, by OECD) and inclusion of a section on the actual use of aerial spraying worldwide in agriculture and public health sectors.

7.5 Review and revision of other guidelines

The JMPM recommended that the following guidelines be reviewed by ad hoc JMPM subgroups (see section 8 below):

- Guidelines on good practice for ground application of pesticides (1997);
- Provisional guidelines on tender procedures for the procurement of pesticides (1994);
- Guidelines on post-registration surveillance and other activities in the field of pesticides (1988);
- Guidelines on management options for empty pesticide containers (2008).

The JMPM agreed to discontinue the FAO revised guidelines on environmental criteria (1989), given that Part 1 of these guidelines has been superseded by the guidelines on data requirements and Part 2 by the Pesticide Registration Toolkit.

7.6 Additional issues on guidelines

In a discussion of issues relevant to all of the technical guidelines, the JMPM agreed that:

- antimicrobial resistance issues and the definition of biological pesticides from the 2017 published guidelines should be integrated into all guidelines where relevant; and
- pesticide labels should contain a Quick Response Code (QR code) that provides information on the product in multiple languages, as discussed in the labelling guidelines, and that the guidelines on data requirements and on legislation should be revised accordingly.

8. Improving guideline development and revision

During the above mentioned discussions on guidelines, the JMPM reviewed the updated list of FAO/WHO Code of Conduct guidelines (as of September 2018) and recommended that additional summary information be included to better reflect the status of the various guidelines. This information would also need to be reflected on the FAO and WHO websites.

The JMPM also agreed that the draft brochure on “Managing Pesticides in Agriculture and Public Health – An Overview of FAO and WHO Guidelines and Other Resources” be finalized and published as a companion document to the Code of Conduct.

The JMPM agreed that improvements were needed in the process for developing, reviewing, and updating the technical guidelines. Acknowledging that its resources were inadequate to carry out this work at the necessary pace, the JMPM recommended:

- that a structured process be implemented for regular review of the existing guidelines, using a simple review template to be completed by ad hoc JMPM subgroups (consisting of at least a member of the Secretariat, a JMPM member and an observer).
- that professional writers be hired to speed up the document writing process, and that the JMPM Secretariat seek required funding for this core and essential activity; and
- that the scope of new guidelines be drafted and subsequently reviewed and agreed by the JMPM before the document writing by the professional writer starts.

The JMPM also recommended revising the “Guidance on drafting guidelines in support of the Code of Conduct” from 2006. It was suggested that a new section be included to address cross-cutting issues, such as:

- climate change
- gender
- hierarchy of control
- risk communication
- awareness (“right to comprehend”)
- low-risk management options (IVM, IPM, agroecology approaches, etc.)
- illegal and counterfeit pesticides
- nanomaterials/nano-pesticides
- human rights approach
- definitions (e.g. low- and middle-income countries, LMICs).

9. Making guidelines more user-friendly and widely known

The JMPM revisited the recommendations presented at the 2017 meeting by the Working group on making the technical guidelines more user-friendly and widely known, and it recommended:

- that the working group’s suggestions for making the guidelines user-friendly and widely known be reviewed at each JMPM meeting;
- that all WHO and FAO publication web pages be linked to relevant JMPM guidelines;
- that FAO set up its website to monitor the use and downloading of JMPM guidelines (noting that WHO webpages already have this provision); and
- that an explicit timeframe for revising the guidelines be made available.

The JMPM also discussed the need for the guidelines, which are written in English and often translated into French and Spanish, to be translated into more official UN languages, to increase their use worldwide. This issue was previously identified as a priority in the 2011 FAO survey of the use and usefulness of the guidelines as well as in the 2017 report of the JMPM working group on making the guidelines more user-friendly.

To this end, the JMPM invited the FAO and WHO regional offices to indicate to the JMPM Secretariat priority guidelines for translation and to support the Secretariat in undertaking necessary translations, e.g. the Central and Eastern European FAO office, which was represented at the meeting, was invited to identify key guidelines needing translation into Russian. The JMPM noted that translation of the guidelines into Arabic and Chinese was also important, and it recommended that support from relevant regional offices be sought for this task.

10. Planning the next revision of the Code of Conduct

The JMPM agreed that it was time to begin planning the next revision of the Code of Conduct, given that new topics that have emerged in international pesticide management since the last revision period (2010–2012) and publication of the revised version in 2014. To support the process, it recommended that a structure be put in place for reviewing and revising the Code.

The JMPM also indicated that it would be useful to carry out such reviews on a regular, more systematic basis, i.e. not just when new issues arise. It therefore invited the FAO and WHO to check whether a regular review and revision of the Code of Conduct would be accepted by the governing bodies of FAO and WHO (and of UN Environment when it formally joins the JMPM).

11. Considerations for the FAO Pesticide Registration Toolkit

The JMPM commended the FAO Secretariat for its continued work to provide training in use of the Pesticide Registration Toolkit, with more than 60 countries and about 350 registration staff trained in the past two years. In a subsequent discussion, after reflecting on the situation in many LMICs, the JMPM recommended that:

- the Toolkit be reviewed to determine whether the text of Article 3.6 is reflected in its original language;
- the Toolkit follow the approach presented in the guidelines on HHPs regarding alternatives to HHPs; and
- the Toolkit training activities be extended to public health pesticide regulators.

12. Emerging and priority issues and future directions in pesticide management

12.1 Proposal for a programme on compliance and enforcement

The JMPM discussed at length an initial proposal by the JMPM Secretariat for a global programme to support the enforcement of pesticide regulations by national governments. The lack of post-registration compliance and enforcement action at the national level, resulting from a lack of government capacity, is well known to be a fundamental problem in pesticide management. The proposal included setting up a global programme to strengthen inspection and control by national pesticide regulatory entities, improve coordination and cooperation between the regulated

communities and regulators, and establish regional mechanisms aimed at reducing illegal transboundary movement of pesticides. The JMPM agreed that such a programme would be very worthwhile, and it:

- recommended that FAO and WHO further elaborate the proposal, and
- invited FAO and WHO to develop a concept note for comments of JMPM participants.

12.2 Reducing risks from cancelled and listed pesticides

The JMPM discussed the problem with the common practice of allowing cancelled pesticides to be used during a phase-out period intended to use up stocks of the pesticide that would otherwise have to be disposed of. This allows people to continue using products whose risks have been identified as unacceptably high. To reduce those risks and also inform users about them, the JMPM recommended the following options:

- FAO and WHO to liaise with the Basel-Rotterdam-Stockholm (BRS) conventions to establish a funding mechanism to support disposal of cancelled pesticides and to reduce or eliminate the phase-out period;
- the JMPM to develop a guideline on reducing risks during pesticide phase-out and on communicating information about the risks to users. The guideline should also promote shared responsibility for the problem and should take into account the polluter pays principle.

The JMPM also discussed the problem of trans-country shipment of pesticides listed in Annex III of the Rotterdam Convention. The Convention requires importing countries that are Parties to the Convention to be informed of the pesticides' hazards, but countries through which the shipments pass en route to their final destination are not informed. The JMPM therefore recommended that the Secretariat of the Rotterdam Convention encourage Parties who export shipments of Annex III listed pesticides not only to notify the importing Parties but also to communicate to all countries through which the shipment transits.

12.3 Environmental and health impacts of pesticides and fertilizers

In advance of the special session on 12 October 2018, UN Environment briefly presented to the JMPM its plans for replying to the request of the third UN Environment Assembly (UNEA-3) (December 2017) for a report on the environmental and health impacts of pesticides and fertilizers and ways to minimize them. UN Environment thanked the JMPM for organizing the session, which would allow JMPM participants and other invited experts to hear about UN Environment's plans and to contribute their ideas. It was noted that JMPM participants would take part in the session as independent experts and would not be officially representing the JMPM.

12.4 Issues with overlapping pesticide and chemical legislation

The FAO legal office reported on the recurrent problem of conflicting chemical and pesticide legislation in some countries, citing a recent case in Guinea-Bissau. The legal office explained that the UNEP “LIRA” Guidance on chemical legislation and its implementing documents are not properly aligned with the recommendations for pesticide legislation outlined in the Code of Conduct and its guidelines. In the view of the legal office, the implementation of these documents results in regulatory frameworks which are not aligned (and are not consistent) with the Code of Conduct and its guidelines. The legal office further referred to a UNIDO–UNEP Global Environment Facility project in Africa under which a “model chemicals law” has been proposed that creates an overlap with pesticide legislation.

The JMPM requested that this issue be reported to IOMC, and that FAO and UNEP discuss and resolve this issue bilaterally. This is particularly important in a moment when UNEP is considering endorsing the Code of Conduct.

13. JMPM meeting process

The meeting concluded with a discussion of ways to improve the JMPM meeting process, notably to make the meetings more focused and efficient. The group recommended:

- that the actions and recommendations of the previous meeting be reviewed at the beginning of all JMPM meetings (both physical and inter-sessional meetings as feasible); and
- that a template be developed for the reports on recent pesticide activities provided by participants in the main JMPM meetings, to increase the efficiency of the reports.

14. Special session on the UN Environment report on the environmental and health impacts of pesticides and fertilizers and ways to minimize them

The special session began with an introduction by UN Environment that provided background on the UNEA-3 request, presented the objectives and expected outcome of the report, and outlined the process and expected timing for its development. The meeting participants, comprised of global experts on pesticides, fertilizers and soil, were then invited to help clarify the scope and content of the report as well as to discuss ideas for a “map” and annotated table of contents for the report, a provisional list of stakeholders and key contributors, and “modalities” to ensure that the drafting process is inclusive and transparent.

The report of the special session will be prepared by UNEP and will be available separately.

15. Recommendations

The recommendations of the JMPM referred to in the text above are summarized below.

FAO/WHO Code of Conduct on Pesticide Management

- The JMPM recommends starting the process for revising the current edition of the Code of Conduct, putting a structure in place for reviewing the content/text, and checking whether a regular review schedule could be accepted by the governing bodies of FAO and WHO (and UN Environment).

JMPM membership and cooperation with others

- The JMPM recommends that UN Environment be invited to join the JMPM as a full member for pesticide management activities. To this end, the JMPM invites the JMPM Secretariat to send a formal letter to UN Environment as soon as possible inviting UN Environment both to endorse the Code of Conduct and to join the JMPM joint Secretariat.
- The JMPM recommends that advice on international and national regulation of pesticides be better coordinated by international organizations, using mechanisms provided by the IOMC.
- The JMPM should review the legal framework on illegal trade of pesticides being developed by the OECD to consider how it could be used in non-OECD countries.
- The JMPM acknowledges the reports by the UN Special Rapporteurs on the “right to food” and on “hazardous substances and wastes”, and will in future discuss how to address issues raised in the reports.

JMPM contributions to the WHO recommended classification of pesticides by hazard

- The JMPM should be given the opportunity to review future updates to the WHO classification prior to publication.
- The JMPM agrees to offer text about chronic toxicity for insertion in the current revision of the WHO classification being prepared for publication by the end of 2018.
- The JMPM recommends that WHO continue circulating draft guidelines relevant for JMPM to review (e.g. the guidelines on aircraft disinsection methods).

Review of new guidelines in advanced stage of development

Guidelines for personal protection when handling and applying pesticides

- The JMPM recommends that section 1.4 of the draft guidelines on types of personal protective equipment (PPE) be reviewed for technical accuracy by experts in the area.
- The JMPM recommends that a separate box or annex covering PPE be included for biological pesticides in the document.
- The JMPM recommends that text on the hierarchy of control approach be drafted for possible inclusion.
- The JMPM recommends adding text on exemption of import taxes on PPE to the discussion of policy.
- The JMPM recommends that all national and international pesticide industry take the lead in a process to ensure that correct PPE is available at an affordable price at the time of pesticide purchase.

Guidelines on household pesticides

- The JMPM recommends that household pesticides be registered as ready-to-use products and not as products with high active ingredient content, akin to agriculture pesticides, that require dilution for actual use.
- The JMPM recommends that nano-pesticides not be registered for household (i.e. non-professional) use at present due to the lack of scientific safety data.
- The JMPM recommends that highly hazardous pesticides (HHPs) should not be registered for household pest control use by non-professional pesticide users. Highly hazardous rodenticides should only be registered for use by professional pest control operators.

Guidelines on inspection of pesticide importers, producers, distributors and retailers

- The JMPM recommends continuing the drafting of the guidelines.
- The JMPM recommends that a section on special considerations for inspections of biological pesticides be added.

Guidelines on licensing of pesticide distributors and retailers

- The JMPM recommends setting up a working group on the guidelines on licensing, drafting an annotated outline, and identifying an expert consultant to draft the guidelines.

Review and revision of existing guidelines

Guidelines on monitoring and observance of the Code of Conduct

- The JMPM recommends revising the guidelines to more closely link them with Article 12 of the Code of Conduct and to stress the importance of national legislation to guide national pesticide management.

Guidelines on data requirements for the registration of pesticides

- The JMPM recommends updating the guidelines, notably to ensure consistency with the information in the Pesticide Registration Toolkit.
- The JMPM recommends adding guidance on minor changes in formulations, e.g. in co-formulates.

Guidelines on good labelling practice for pesticides

- The JMPM recommends updating the guidelines to reflect concerns regarding chronic effects.
- The JMPM recommends that chronic hazards be included on the pesticide label.
- The JMPM recommends continuing the placement of the pesticide mode of action information on labels by the pesticide industry.

Guidelines on good practice for aerial application of pesticides

- The JMPM recommends revising the guidelines on aerial application of pesticides (2001) to cover new technological developments in this area and to include public health pesticides for vector control in the scope.

Other guidelines

- The JMPM also recommends reviewing the following guidelines:
 - Guidelines on good practice for ground application of pesticides (1997)

- Provisional guidelines on tender procedures for the procurement of pesticides (1994)
 - Guidelines on post-registration surveillance and other activities in the field of pesticides (1988)
 - Guidelines on management options for empty containers (2008)
- The JMPM agrees to discontinue the FAO revised guidelines on environmental criteria (1989), acknowledging that Part 1 of these guidelines has been superseded by the guidelines on data requirements and Part 2 by the Pesticide Registration Toolkit.

Additional issues for all guidelines

- The JMPM recommends that antimicrobial resistance issues be integrated into the technical guidelines where relevant.
- The JMPM recommends adding the definition of biological pesticides to all guidelines when appropriate.
- The JMPM recommends that pesticide labels contain a QR code that provides information on the product in multiple languages, as recommended in the labelling guidelines, and that the guidelines on data requirements and legislation be revised accordingly.

Improving guideline development and revision

- The JMPM recognizes that the current level of resources is inadequate for writing and revising guidelines at the pace required by users. The JMPM therefore recommends hiring professional writers to speed up the process and encourages the FAO and WHO Secretariats to seek funding for this essential activity.
- The JMPM recommends that a structured process be implemented for regular review and updating of guidelines.
- The JMPM recommends that the scope of new guidelines be drafted and subsequently reviewed and agreed by the JMPM before the document writing starts.
- The JMPM recommends developing a new section in the (to be revised) guidance on drafting guidelines to address cross-cutting issues, such as:
 - climate change
 - gender
 - hierarchy of control
 - risk communication
 - awareness (“right to comprehend”)
 - low-risk management options (IVM, IPM, agroecology, etc.)

- illegal and counterfeit pesticides
- nanomaterials/nano-pesticides
- human rights approach
- definitions (e.g. LMICs).

Making guidelines more user-friendly and widely known

- The JMPM recommends that the suggestions made in earlier FAO and JMPM reports for making the guidelines more user-friendly and widely known be reviewed at each meeting.
- The JMPM re-emphasizes the importance of making the guidelines available in all official UN languages to increase their global use, with an explicit timeframe for publication/finalization.
- The JMPM recommends that regional offices indicate to the Secretariat priority guidelines for translation, e.g. the Central and Eastern European FAO office is invited to identify key Code of Conduct guidelines that require translation into Russian. The JMPM notes that translation of guidelines into Arabic and Chinese is also important and recommends that support from relevant regional offices be sought.
- The JMPM recommends that all WHO and FAO publication web pages be linked to relevant JMPM guidelines.
- The JMPM recommends that FAO set up its website to monitor the use and downloading of JMPM guidelines.

Pesticide Registration Toolkit

- The JMPM recommends that the Toolkit be reviewed to determine whether the text of Article 3.6 of the Code of Conduct is given as originally written in the Code.
- The JMPM recommends that the Toolkit follow the approach presented in the guidelines on HHPs regarding alternatives to HHPs.
- The JMPM recommends that the Toolkit training activities be extended to public health pesticide regulators.

Emerging and priority issues and future directions in pesticide management

Proposed programme on compliance and enforcement

- JMPM recommends that FAO and WHO further elaborate their proposal for a global support programme on pesticide compliance and enforcement, and it invites the JMPM Secretariat to develop a concept note for comment by JMPM participants.

Reducing risks during pesticide phase-out

- The JMPM recommends that action be undertaken to improve the situation, e.g.:
 - the JMPM Secretariat could liaise with the BRS conventions to establish a funding mechanism to support disposal of listed pesticides and to reduce or eliminate the phase-out period,
 - and/or the JMPM could develop a short guideline on reducing risks during pesticide phase-out and on communicating information about the risks to users. The guideline should promote shared responsibility for the problem and take into account the polluter pays principle.

Other issues

- The JMPM recommends that antibiotics used for human and animal health should not be registered as pesticides by countries.
- The JMPM recommends that the Secretariat of the Rotterdam Convention encourage Convention Parties who export shipments of pesticides listed in Annex III of the Convention not only to notify the importing Parties but also to communicate to all countries through which the shipment transits.

JMPM meeting process

- The JMPM recommends that the actions and recommendations of the previous JMPM meeting be reviewed at the beginning of all JMPM meetings (both physical meetings and inter-sessional meetings).
- The JMPM recommends developing a template for reporting on pesticide management activities (i.e. the updates on current activities provided by participants in the main JMPM meetings) so as to have more efficient presentations at future meetings.

Annex 1 – List of participants (in Alphabetic order)

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Annex 2 – Final agenda as adopted by the JMPM

Eleventh FAO/WHO joint meeting on pesticide management

9–12 October 2018

FAO, Rome, Italy

Final Agenda

Monday, 8 October 2018	
Meeting of the FAO and WHO JMPM Secretariat	14:00–17:30
Tuesday, 9 October 2018	
<p><u>Closed session</u></p> <p>Welcome</p> <ul style="list-style-type: none"> i. Declarations of interest ii. Panel working procedures and programme of work <ul style="list-style-type: none"> - Membership (Panel members) - Chair, Co-chair and rapporteurs iii. Any other matters 	09:00–09:45
<p><u>Open session</u></p> <ul style="list-style-type: none"> 1. Opening and welcome notes <ul style="list-style-type: none"> - Welcome (<i>FAO and WHO</i>) - Introduction of participants - Opening remarks (<i>FAO</i>) 2. Appointment of Chairperson and Rapporteurs 	09:45–10:30
<i>Morning tea / coffee break</i>	10:30–10:45
<ul style="list-style-type: none"> 3. Adoption of agenda 4. Meeting procedure, working arrangements and housekeeping matters 	10:45–11:15
<ul style="list-style-type: none"> 5. Summary of developments and actions taken after the 10th JMPM in 2017 <ul style="list-style-type: none"> - Brief reports by FAO on pesticide management initiatives in regions (in particular in Africa, in Asia and in Eastern Europe); WHO; UNEP; OECD; NGOs and industry on progress in pesticide management 	11:15–12:30
<i>Lunch break</i>	12:30–14:00

6. Review of guidelines in advanced stage of development (first part) a. Finalize the guidelines on personal protection when handling and applying pesticides	14:00–15:30
<i>Afternoon tea / coffee break</i>	
7. Review of guidelines in advance stage of development (cont'd) b. Guidelines on the management of household pesticides	15:45–17:45
<i>Hosted by FAO</i>	
	18:00

Wednesday, 10 October 2018	
8. Review of guidelines in advance stage of development (cont'd) c. Guidelines on inspection of pesticide importers, producers, distributors and retailers	09:00–10:00
9. Review of guidelines in advance stage of development (cont'd) d. Guidelines on licensing of pesticide distributors and retailers	10:00–10:30
<i>Morning tea / coffee break</i>	
10. Review of guidelines in advance stage of development (cont'd) e. Continue discussion on above guidelines (6d) and other guidelines as necessary	10:45–12:30
<i>Lunch break</i>	
11. Review of existing guidelines f. Revise Guidelines on Monitoring and Observance of the Code of Conduct (2006) g. Improving the monitoring procedure of the implementation of the Code of Conduct	14:00–15:30
<i>Afternoon tea / coffee break</i>	
	15:30–15:45

<p>12. Planning development of new guidelines and review of existing guidelines (and related issues)</p> <ul style="list-style-type: none"> h. Status of guidelines (cf. list and draft brochure) i. Guidelines development process <ul style="list-style-type: none"> – Procedure for the development of guidelines in support of the Code of Conduct (amended version from 2009) j. Update on existing guidelines and discussion on need for new guidelines: <ul style="list-style-type: none"> – Review of “Guidelines on data requirements for the registration of pesticides” (2013) – Review of “Guidelines on Good Practice for Aerial Application of Pesticides” (2001) – Review of “Revised guidelines on environmental criteria for the registration of pesticides” (1989) – Labelling of pesticides – concerns about colour bands and long-term effects – Guidelines regarding rational use of pesticides k. Prioritization process / priorities for updating guidelines on other issues related to guidelines development and updates 	15:45–17:15
<p>13. Planning next revision of the Code of Conduct</p> <ul style="list-style-type: none"> l. Process aspects m. Content to be added to the Code <ul style="list-style-type: none"> i. Protection of indigenous people ii. Monitoring the Code iii. Other issues to be identified 	17:15–18:00
<p><i>Note: Rapporteurs to work on recommendations</i></p>	

<p>Thursday, 11 October 2018</p>	
<p>14. Emerging and priority issues in pesticide management and discuss gaps, challenges and future direction and priorities of FAO and WHO on pesticide management</p> <ul style="list-style-type: none"> n. Proposal for a global support programme for pesticide compliance and enforcement o. Other issues to be identified (<i>with advanced contributions from JMPM members and observers</i>) 	09:00–10:30
<p><i>Morning tea / coffee break</i></p>	

15. JMPM inputs on the preparation of the report on the environment and health impacts of pesticides and fertilizers (UNEA-3 request in December 2017)	10:45–12:15
16. Any other issues	12:15–12:30
<i>Lunch break</i>	<i>12:30–14:00</i>
<u><i>Closed session</i></u> 17. Reviewing JMPM Recommendations	14:00–15:30
<i>Afternoon tea / coffee break</i>	<i>15:30–15:45</i>
18. Finalizing JMPM Recommendations	15:45–17:30
Note: <i>Rapporteurs to finalize JMPM recommendations</i>	18:00–20:00 (flexible)

Friday, 12 October 2018	
<u><i>Open session</i></u> 19. Presentation of JMPM Recommendations	09:00–10:30
<i>Morning tea / coffee</i>	10:30–10:45
<i>Special JMPM session</i> <i>to participate in UN Environment Consultative Meeting</i>	
16. First consultative meeting in preparation of a report mandated from UNEA-3 on the environmental and health impacts of pesticides and fertilizers - Discussion on the preparation of the report on the environment and health impacts of pesticides and fertilizers	10:45–12:30
<i>Lunch break</i>	12:30–14:00
20. First consultative meeting (cont'd)	14:00–16:30
21. Closing	16:30–17:00

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