



## UPDATE ON ACTIVITIES OF THE TECHNICAL PANEL ON DIAGNOSTIC PROTOCOLS (MAY 2014 TO APRIL 2015) PRESENTED TO THE 4-8 MAY 2015 STANDARDS COMMITTEE (SC) MEETING

*(Prepared by the IPPC Secretariat, Standard Setting team)*

### 1. TPDP Secretariat Support

[1] The Technical Panel on Diagnostic Protocols (TPDP) has been receiving support of the following IPPC Secretariat staff:

- Ms Adriana G. MOREIRA (Secretariat lead)
- Ms Yosra CHABAANE (Secretariat lead back up)
- Mr Nuri NIYAZI (Secretariat support)

### 2. TPDP membership

[2] The TPDP membership and contact information can be found on [IPP](#). In table 1 there is a simplified list. The Standards Committee (SC) in its 2014 November meeting added a new TPDP member specialized in entomology. The panel now has a team of nine members.

**Table 1.** TPDP membership (as of November 2014) and expertise of its members

Participant role	Name (country*)	Expertise	Term expires
Steward	Ms Jane CHARD (GB)		
Assistant steward	Mr Guillermo S. CHINCHILLA (CR)		
Member	Mr Robert TAYLOR (NZ)	Bacteriology	May 2016 (1 <sup>st</sup> term)
Member	Ms Liping YIN (CN)	Botany	April 2018 (2 <sup>nd</sup> term)
Member	Ms Ana Lía TERRA (UY)	Entomology	April 2018 (2 <sup>nd</sup> term)
Member	Mr Norman B. BARR (US)	Entomology	July 2017 (1 <sup>st</sup> term)
Member	Ms Juliet GOLDSMITH (JM)	Entomology	November 2019 (1 <sup>st</sup> term)
Member	Mr Johannes DE GRUYTER (NL)	Mycology	April 2018 (2 <sup>nd</sup> term)
Member	Ms Géraldine ANTHOINE (FR)	Nematology	April 2019 (2 <sup>nd</sup> term)
Member	Mr Delano JAMES (CA)	Virology	November 2020 (2 <sup>nd</sup> term)
Member	Mr Brendan RODONI (AU)	Virology (and back up for bacteriology)	July 2017 (1 <sup>st</sup> term)

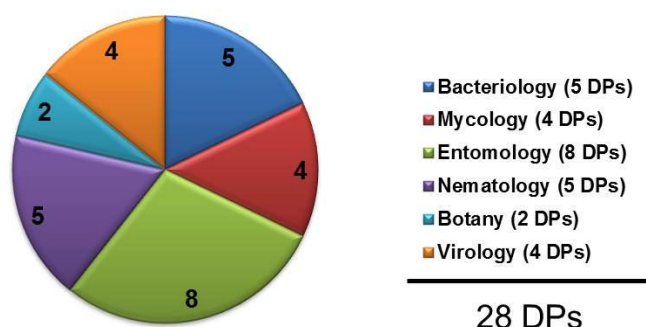
\*Countries names are in ISO format (ISO 3166-1-alpha-2 code).

### 3. TPDP volume of work

[3] The TPDP work programme has 28 diagnostic protocols (DPs) under various stages of development under 6 disciplines (figure 1). Most of the DPs are drafted however, 2 DPs are in “pending status”<sup>1</sup> and 1 DP is “on hold” due the fact that authors for this DP cannot be found.

<sup>1</sup> List of topics for IPPC standards: <https://www.ippc.int/en/core-activities/standards-setting/list-topics-ippc-standards/>

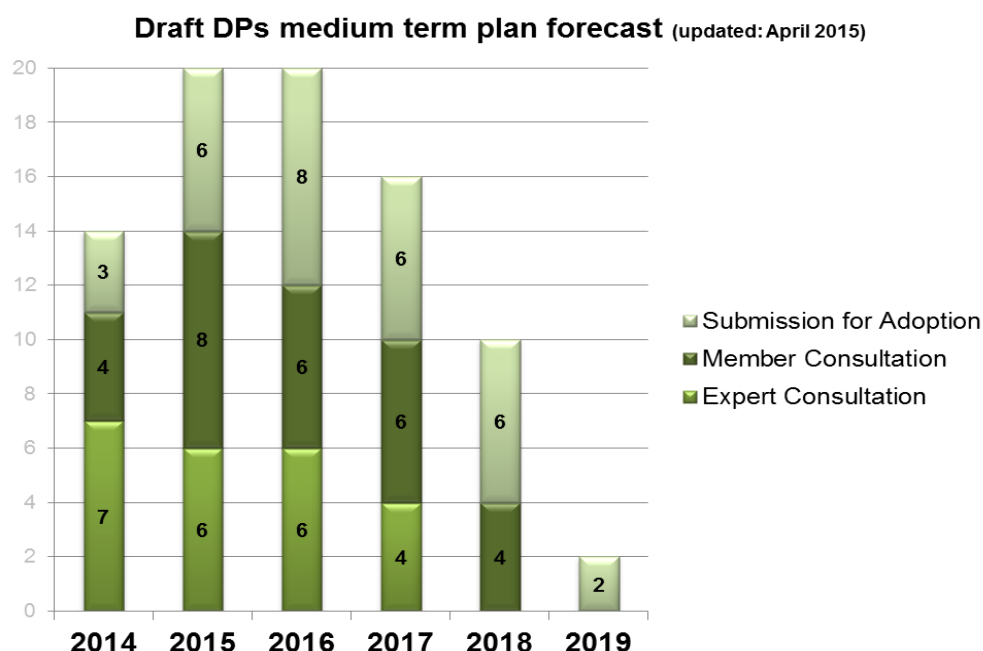
TPDP Work Programme (April 2015)



**Figure 1.** Number of subjects (DPs) per topic (discipline) under the Technical Panel on Diagnostic Protocols (TPDP) work programme (updated on 2015-04-07).

### 3.1 DPs in numbers

- [4] A total of 14 draft DPs were processed through the standard setting system in 2014 which is 1.5 times more compared to 2013<sup>2</sup>. In 2015, a total of 20 draft DPs are projected to flow through the standard setting process, which represents 2.2 times more than in 2013 and 1.5 times than in 2014. The same amount of draft DPs is also foreseen for 2016 (figure 2) representing the management of over 100 DP authors.
- [5] The development of diagnostic protocols supports the IPPC's Implementation Programme which will focus on surveillance for the next few years.



**Figure 2.** Draft diagnostic protocols medium term plan forecast (updated on 2015-04-07).

<sup>2</sup> In 2013, there were a total of 9 draft DPs through the standard setting process (see 23\_SC\_2014\_May).

### 3.2 Number of TPDP activities

[6] The TPDP work programme is being delivered through several activities. Since May 2014, the activities were as follow:

- 2 member consultations<sup>3</sup> (01 July – 01 December 2014 and 30 January – 30 June 2015): 9 draft DPs
- 2 DP notification periods<sup>4</sup> (01 July – 15 August 2014 and 15 December 2014 – 30 January 2015): 3 draft DPs
- 2 Expert Consultations on draft DPs (ECDP)<sup>5</sup> (10 March – 24 April 2015 and 24 March – 24 April 2015): 4 draft DPs
- 4 TPDP e-decisions (Since August 2014 up to 7 April 2015): 4 draft DPs
- 1 call for author<sup>6</sup> (25 November 2014 – 15 January 2014): 2 draft DPs<sup>7</sup>

### 3.3 TPDP Meetings

[7] The TPDP has held 5 meetings since May 2014. The reports from each meeting can be found on the IPP<sup>8</sup>.

- 2014 TPDP July (face-to-face meeting): 07 – 12 July 2014, Paris (France)
- 2014 TPDP June virtual meeting
- 2014 TPDP November virtual meeting
- 2015 TPDP February virtual meeting
- 2015 TPDP April virtual meeting<sup>9</sup>

[8] A summary of the discussions and outcomes of each meeting are detailed below, as well as intersession activities.

#### 2014 June Virtual Meeting

[9] The Secretariat made a brief update on the draft Diagnostic Protocols (DPs) that were foreseen for the 2014 member consultation, 2014 notification period and to be discussed at the next TPDP face to face meeting, scheduled to July 2014. It was stressed the importance of meeting deadlines due to the limited flexibility for the Standards Committee (SC) e-decisions dates.

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<sup>3</sup> Member consultation (MC) on draft ISPMs on IPP: <https://www.ippc.int/en/core-activities/standards-setting/member-consultation-draft-ispms/>

<sup>4</sup> Notification Period for draft DPs on IPP: <https://www.ippc.int/en/core-activities/standards-setting/draft-ispms/notification-period-dps/>

<sup>5</sup> Expert consultation on draft DPs on IPP: <https://www.ippc.int/en/expert-consultation-on-draft-diagnostic-protocols-ecdp/>

<sup>6</sup> 2014 November Call for Authors on IPP: <https://www.ippc.int/en/core-activities/standards-setting/calls/calls-for-experts/call-authors-diagnostic-protocols/2014-november-call-for-authors/>

<sup>7</sup> The results of the 2014 Call for authors can be found in the 2015 TPDP February Virtual Meeting report at <https://www.ippc.int/en/work-area-publications/80380/>.

<sup>8</sup> Reports of the TPDP meetings: <https://www.ippc.int/en/core-activities/standards-setting/expert-drafting-groups/technical-panels/technical-panel-diagnostic-protocols/>

<sup>9</sup> By the time this paper was posted the 2015 TPDP April virtual meeting report was being finalized.

- [10] The TPDP discussed which draft DPs would be ready for the 2014 July face-to-face meeting and agreed to invite three authors of the draft DPs that were on the meeting agenda.
- [11] The TPDP discussed the nominations received from the 2014 January Call for Authors<sup>10</sup>. Due to the lack or low number of nominations even after the second call for authors for *Anguina* spp. (2013-003) and *Conotrachelus nenuphar* (2013-002) the TPDP agreed to try contacting other experts to be part of these DP drafting groups. Also, it was identified a need for additional authors for *Anoplophora* spp. (2004-020). The final decision was made during the face to face meeting (2014 July, Paris).

### 2014 July Meeting (EPPO, Paris, France)

- [12] The Secretariat presented the status of the TPDP work programme, highlighting the dates when it is expected the 31 draft DPs will reach the various steps in the standard setting process noting that, in an optimistic scenario, all draft DPs are expected to be submitted for adoption by 2017.
- [13] The TPDP conducted detailed revisions of the following seven draft DPs:
1. *Sorghum halepense* (2006-027)
  2. Genus *Liriomyza* (2006-017)
  3. *Aphelenchoides besseyi*, *A. ritzemabosi* and *A. fragariae* (2006-025)
  4. *Bursaphelenchus xylophilus* (2004-016)
  5. *Citrus tristeza virus* (2004-021)
  6. *Xanthomonas fragariae* (2004-012)
  7. *Xiphinema americanum sensu lato* (2004-025)
- [14] The TPDP reviewed a few member comments on the draft DP for *Potato spindle tuber viroid* (PSTVd) (2006-022) which needed to be addressed before forwarding the draft to the SC for approval. The final draft DP and responses to the member comments were agreed in a TPDP e-decision.
- [15] The future of DPs and the panel's work, specially the enormous amount of work that is expected from the panel members in the upcoming 2 years and quality assurance issues were discussed, as well as some of the activities of the International Organization for Standardization (ISO) and the Global Taxonomy Initiative (GTI) that may have an impact on the work of the TPDP. The TPDP brainstormed on the panel's strengths, weaknesses, opportunities and threats, and developed a "SWOT analysis" that will be a helpful tool to set up an action plan and guide the TPDP towards its goal. During this exercise, the TPDP found that 58% of DPs in the TPDP work programme are regulated pests of major concern for IPPC Contracting Parties according to the IRSS findings<sup>11</sup>.
- [16] The TPDP reviewed the experts (i.e. authors) for the DP drafting groups associated with the work programme<sup>12</sup> and DP authors were selected (from 2014 January Call for Authors and other DPs). It was identified that there was a need for additional authors the Secretariat was requested to open a call. The TPDP also identified the need for one additional member on Insects and Mites discipline, with experience in classical entomological taxonomy, diagnosis and writing protocols for regulatory purposes. For the draft DP for *Gymnosporangium* spp. (2004-008) that is currently on "pending status", the TPDP recommended to the SC to remove this subject from the TPDP work programme as there were no new risks or outbreaks identified by the panel.

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<sup>10</sup> 2014 January call for DP authors: <https://www.ippc.int/en/calls/call-for-dps-authors-january-2014/>

<sup>11</sup> IRSS survey on ISPM 17 & ISPM 19: <https://www.ippc.int/largefiles/2014/Survey-Analysis-NPPOs-17-19.pdf>

<sup>12</sup> IPPC Diagnostic Protocols (DPs) drafting groups contact information: <https://www.ippc.int/en/publications/2582/>

- [17] The TPDP discussed and revised the *TPDP Working procedures*<sup>13</sup> and *TPDP Instructions to authors of diagnostic protocols*<sup>14</sup>. An update on the work from other organizations (European Plant Protection Organization (EPPO), European Biosafety Association, EUPHRESKO) was made.
- [18] The TPDP reviewed their medium term plan and work plan for 2014-2015<sup>15</sup> and modified them according to decisions taken at the meeting.

### 2014 November Virtual Meeting

- [19] The Secretariat gave a brief update on the points for the 2014 November SC meeting and SC e-decisions conducted by that time and thanked all the TPDP members, DP drafting groups and experts that contributed to the two new adopted DPs<sup>16</sup> adopted on August 2014 by the SC on behalf of CPM:
- Annex to ISPM 27 (*Diagnostic protocols for regulated pests*) DP 5. *Phyllosticta citricarpa* (McAlpine) Aa on fruit
  - Annex to ISPM 27 (*Diagnostic protocols for regulated pests*) DP 6. *Xanthomonas citri* subsp. *citri*
- [20] The TPDP discussed the draft DPs that were foreseen for the 2015 member consultation periods, 2015 expert consultations and 2015 notification periods.
- [21] In addition, the panel selected authors for the DP drafting group for *Striga* spp. (2008-009), *Xylella fastidiosa* (2004-024), *Phytophthora ramorum* (2004-013) and Begomoviruses transmitted by *Bemisia tabaci* (2006-023). Also, TPDP members asked the Secretariat to open a call for authors for *Striga* spp. (2008-009) together with a call for *Puccinia psidi* (2006-018).
- [22] The TPDP discussed some points from the 2104 July TPDP meeting. One was that Mr Delano JAMES (Canada), the discipline lead for Virology, accepted the second five year term membership that was proposed during the 2014 May SC meeting. Another point was the introductory brochure for new DP authors that is expected to be ready by February 2015. Regarding ISO, the Secretariat reminded TPDP members that the IPPC secretariat has an observer status to the working group to the ISO project entitled ISO/DIS 13484: *Foodstuffs - General requirements for molecular biology analysis for detection and identification of destructive organisms in plants and derived products*.

### 2015 February Virtual Meeting

- [23] The Secretariat gave a brief update on the draft DPs that were foreseen for the 2015 expert consultation on draft DPs and thus those drafts to be discussed at the next TPDP face to face meeting, scheduled for June 2015. The TPDP discussed the feasibility of having other draft DPs ready and also discussed some points related to adjustments to scope.
- [24] In addition, the panel selected DP authors from the 2014 November Call for Authors for the draft DPs *Puccinia psidii* (2006-018) and *Striga* spp. (2008-009).
- [25] For the *Anoplophora* spp. (2004-020) draft DP, the drafting group (initially composed of five authors) is not able to continue working on this draft. It was pointed out that this subject was proposed by Bangladesh and added to the work programme by the SC in November 2014. It was also pointed out that was also mentioned several times in the IRSS survey on ISPM 17 (*Pest reporting*) and ISPM 19 (*Guidelines on lists of regulated pests*), in response to the question about the major pests of concerns for each country. The panel agreed that this pest is important and that there is need for an international

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<sup>13</sup> Available in IPPC Procedure Manual for Standard Setting (Section 7.4): <https://www.ippc.int/core-activities/ippc-standard-setting-procedure-manual>

<sup>14</sup> Instruction to authors of diagnostic protocols: <https://www.ippc.int/en/publications/1180/>

<sup>15</sup> TPDP work plan 2014-2015 can be found in Appendix 4 of the 2014 July TPDP meeting at <https://www.ippc.int/en/work-area-publications/2579/>

<sup>16</sup> List of adopted ISPMs: <https://www.ippc.int/en/core-activities/standards-setting/ispm/>

harmonized DP. It was agreed to try to make contact with the DP drafting group to obtain their commitment for the development of this draft DP. Once all such efforts are exhausted and no authors are identified, the panel considered to discuss again in the next virtual meeting and seek guidance with the SC on how to proceed.

[26] The Secretariat updated the panel about the proposed CPM-10 side sessions related to diagnostic protocols. The Secretariat gave an update from the last ISO virtual meeting related to the development of the ISO Plant pathogen standard ISO/TC 34/SC 16.

[27] Updates on SC e-decisions were made and the Secretariat thanked all the TPDP members, DP drafting group and experts that contributed to the new adopted DP<sup>17</sup> adopted on August 2014 by the SC on behalf of CPM:

- Annex to ISPM 27 (*Diagnostic protocols for regulated pests*) DP 7. *Potato spindle tuber viroid*.

## 2015 April Virtual Meeting

[28] The Secretariat updated the panel on the nine draft DPs that are to be submitted to an expert consultation. It was highlighted that three other drafts are either on pending status or on hold due the lack of authors to work on the development of the draft. Envisaging the delivery of the TPDP work programme in the upcoming years, it was proposed to have at least two more expert consultations on draft DPs in 2015 (which will occur in the 3<sup>rd</sup> or 4<sup>th</sup> quarter of 2015) and four in 2016 and thus, the detailed discussions on the drafts would be performed in virtual meetings. The panel noted the update and agreed with the proposal. A more realistic scenario on the draft DPs to be submitted to the next expert consultations will be provided at the face-to-face meeting (22-26 June 2015, Shanghai). The panel also agreed to have one draft DP to be discussed at the face-to-face meeting prior to submitting it to the expert consultation.

[29] In addition, the panel selected DP authors for the draft DPs *Conotrachelus nenuphar* (2013-002) and *Striga* spp. (2008-009).

[30] Regarding the DP for *Anoplophora* spp. (2004-020), contact had been made with the original DP drafting group. However, no positive responses were received from the authors regarding their commitment to work on this draft because they feel that there is no need to develop a DP for this pest. The TPDP noted the importance of this pest and supports the need to develop an international harmonized DP. The TPDP now seeks guidance from the SC on the need for an international harmonized DP for this pest and how best to proceed, particularly as the TPDP has made several unsuccessful attempts to identify authors.

[31] The Secretariat updated the panel on the three draft DPs which should go for the 2015 July member consultation (01 July – 30 November 2015), noting that one was currently under a SC e-decision and two will follow. For the 2015 July DP notification period (01 July – 15 August 2015), at least two draft DPs are forecast to be submitted to the SC. The Secretariat updated the TPDP on the CPM-10 discussions and decisions related to diagnostic protocols.

## 4. Details of intersessional work

### 4.1 Expert Consultations on Draft Diagnostic Protocols

[32] In 2015 two Expert Consultations on draft DPs (ECDP) were performed for 4 draft DPs meant to help in the development of science-based DPs, seeking input from other experts not typically reached through our normal communication channels that are not part of the DP drafting groups. The draft DPs and the ECDP period were as follows:

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<sup>17</sup> List of adopted IPSPMs: <https://www.ippc.int/en/core-activities/standards-setting/ispsms/>



- **10 March – 24 April 2015:**

1. *Fusarium moniliformis* / *moniforme* syn. *F. circinatum* (2006-021)
2. *Phytophthora ramorum* (2004-013)
3. *Dendroctonus ponderosae* syn. *Scolytus scolytus* (2006-019)

- **24 March – 24 April 2015:**

1. *Anguina* spp. (2013-003)

#### 4.2 Member Consultations on Draft Diagnostic Protocols

[33] In 2014 one member consultation period via the Online Commenting System (OCS) was held for the following four draft DPs:

- **01 July – 01 December 2014:**

1. Genus *Anastrepha* (2004-015)
2. Phytoplasmas (general) (2004-018)
3. *Ditylenchus destructor* / *D. dipsaci* (2004-017)
4. *Erwinia amylovora* (2004-009)

[34] In 2015 two member consultations period will be held for draft DPs via the OCS. The first member consultation is currently open for the following draft DPs:

- **30 January – 30 June 2015**

1. *Bursaphelenchus xylophilus* (2004-016)
2. *Citrus tristeza virus* (2004-021)
3. *Tomato spotted wilt virus*, *Impatiens necrotic spot virus* and *Watermelon silver mottle virus* (2004-019)
4. *Xiphinema americanum sensu lato* (2004-025)
5. Genus *Liriomyza* (2006-017)

- **01 July – 30 November 2015**

[35] The second member consultation will start on 01 July to 30 November 2015. There are three draft DPs foresaw to be presented to the SC for approval for member consultation. Updated information will be provided at the 2015 SC May meeting.

#### 4.3 DPs Notification Period

[36] Two DP notification periods were conducted in 2014 as follows:

- **01 July 2014 - 15 August 2014**

1. *Phyllosticta citricarpa* (McAlpine) Aa on fruit (2004-023)
2. *Xanthomonas citri* subsp. *citri* (2004-011).

- **15 December 2014 - 30 January 2015**

1. *Potato spindle tuber viroid* (2006-022)

[37] No formal objections were received for the above notification periods and the DPs were adopted by the SC on behalf of the CPM. These three DPs were noted by CPM-10 (2015).

#### 4.4 Participation of TPDP in other relevant meetings

- [38] The TPDP Steward, Ms Jane CHARD, provided a lecture on “Development of IPPC standards” at the 7<sup>th</sup> International Seed Testing Association (ISTA) Seed Health Symposium held in 12 – 14 June 2014, Edinburgh, United Kingdom.
- [39] The discipline lead for Viruses and Phytoplasmas, Mr Delano JAMES, provided a lecture on “*Plum pox virus* (PPV) detection: the standardized IPPC diagnostic protocol” at the meeting on Understanding and Preparing for the Threat of Plum Pox Virus (“Sharka” Disease) in California and the Western States” held in 29 September - 1 October 2014, University of California - Davis, California, USA.
- [40] The IPPC Secretariat lead for the TPDP, Ms Adriana G. MOREIRA, provided the opening speech on “Protecting the world’s plant resources from pests through harmonized diagnostics protocols” at the 38<sup>th</sup> São Paulo Phytopathological Congress (Brazil) held in 10 – 12 February 2015, Federal University of São Carlos (UFSCar), Araras, Brazil<sup>18</sup>.

#### 5. Tentative TPDP work plan: May 2015 – April 2016

- [41] The next face to face meeting will be convened in Shanghai, China, on 22 – 26 June 2015 at the Shanghai Entry-Exit Inspection and Quarantine Bureau (SHCIQ). The meeting will be hosted by the People’s Republic of China Plant Protection Organization and organized by the General Administration of Quality, Supervision, Inspection and Quarantine of the People’s Republic of China (AQSIQ). The TPDP will discuss in details five draft DPs.
- [42] The TPDP will continue to work on the 25 draft DPs (other than the 2 pending and the 1 on hold. It is hoped that the current DPs will all be submitted for adoption by 2019.
- [43] The TPDP tentative work plan for May 2015 – April 2016 is summarized in figure 2.

##### Expert Consultations on draft DPs:

- [44] Two additional expert consultations is planned to take place in the 3<sup>rd</sup> and 4<sup>th</sup> quarter of 2015 for at least 2 draft DPs.
- [45] For 2016, a total of four expert consultations for at least 6 drafts is planned. More specifically 2 expert consultations for at least 4 drafts DPs are planned for the 1<sup>st</sup> and 2<sup>nd</sup> quarter of 2016.

##### Member consultations:

- [46] Depending SC’s approval, the second member consultation in 2015 for draft DPs (also for other draft ISPMs) will be from 01 July – 30 November 2015 for at least 3 draft DPs.
- [47] For 2016, two member consultations for draft DPs are foreseen and up to April 2016, one member consultation for at least 4 draft DPs.

##### DP Notification periods:

- [48] Two DP notification periods are planned for 2015 (01 July – 15 August 2015 and 15 December 2015 – 30 January 2016) for at least 6 draft DPs, depending SC’s approval. These draft DPs were submitted to the 2014 member consultation or 2015 February member consultation.
- [49] Envisaging the accomplishment of the 2016 numbers in tentative work plan, two DP notification periods are planned for 2016 (01 July – 15 August 2015 and 15 December 2015 – 30 January 2016). For the first DP notification period at least 5 draft DPs are foreseen to be submitted to this step in the Standard Setting process.

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<sup>18</sup> IPP news item: <https://www.ippc.int/en/news/protecting-the-worlds-plant-resources-from-pests-through-harmonized-diagnostic-protocols/>