IOBC wprs WG „Pesticides and Beneficial Organisms“

Report for the period 2005 to 2007

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Objectives

- Develop and establish test methods and guidelines
Objectives

• Elaborate and publish data on side-effects of pesticides on beneficials
• Support IPM by identifying suitable Plant Protection Products (PPPs) and their use to preserve beneficial organisms
• Exchange experience and knowledge and foster the use of selective PPPs
Institute for Plant Protection in Fruit Crops, Dossenheim, Germany
Dr. Heidrun Vogt

### Schonung: Selektive Pflanzenschutzmittel

http://www.iobc.ch/news.html (= Toolbox: Selectivity of pesticides); includes 180 active substances
<table>
<thead>
<tr>
<th>Year</th>
<th>Locality, Country</th>
<th>Host</th>
<th>Participants / IOBC members (Countries)</th>
<th>Presentations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>Dębe Poland</td>
<td>Res. Inst. of Pomology &amp; Florticulture, Skierniewice, Prof. Dr. R. Olszak</td>
<td>50 / 20 (14)</td>
<td>23</td>
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</tbody>
</table>
Topics of the meetings

- methodical aspects of laboratory, semi-field and field tests
- effects of plant protection products (ppp` s) and biocontrol agents (entomo-pathogenic fungi and f nematodes) on beneficials in diverse crops (initial and sublethal)
- comparison of sensitivity of beneficial species to ppp‘ s
- questions about IPM and how to improve it
- establishment of crop specific selectivity lists
- regulatory issues
Discussion points and further objectives

- interpretation and importance of side-effect results in the field;

- sublethal effects and their importance on population level of the beneficials;

- effects of pesticides with special mode of action (e.g. IGRs); systemic pesticides may need adoption of methods and prolongation of the observation period, more data about their persistence needed;

- effects of pesticides in protected crops;

- extrapolation of data between species;

- more guidance in field methods needed, especially especially sampling techniques
Guideline development

Extended laboratory test with
*Aphidius rhopalosiphi*


Publications


Berlin meeting 2007 – Election of New Convenor

Jean-Pierre Jansen  Heidrun Vogt  Barbara Baier

Institute for Plant Protection in Fruit Crops, Dossenheim, Germany  Dr. Heidrun Vogt  www.jki.bund.de
IOBC Working Group “Pesticide and Beneficial Organisms”
2007-2009
JP Jansen
New convenor & meeting

- JP Jansen 2008-....
  - Meeting in Dubrovnik (7-9 Oct 2009)
    - Local organiser B. Baric, University of Zagreb
    - 50 participants planned, 15 countries
    - 28 oral communications (no poster session)
Topics

- Results with classical methods and pesticides
- New compounds with specific mode of action ↔ development of new methods
- 5 communications/28 on honeybees and bumblebees
  - Need to open the group to side effects on pollinators?
Special session

- IPM implementation and pesticide side-effects database
  - Need to Update the existing IOBC database
    - New records in IOBC bulletin + other publication (e.g. registration file if public information available ?)
    - Transfer of the information to a larger public than scientific (e.g. IOBC web site ?)
  - Stimulate the members to generate important missing data
  - Stimulate collaboration with other related database ?
ESCORT III *

- Planned for September ‘09– October 2010
- Revision of ESCORT I and II
  - IOBC methods but gap between IPM ⇔ Non target Organisms for registration
- Mostly focus on off-crop
  - Need for collaboration with Landscape Management for functional biodiversity WG
  - Recovery of beneficials after harmful pesticide applications seems to be the future key for registration

ESCORT: European Standard Characteristics of Non-Target Regulatory Testing