2.5 The acute and chronic Oomen feeding test – adapted methods and further options*

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Abstract

According to the “Guidance Document on the risk assessment of plant protection products on bees” (EFSA 2013) the Oomen bee brood feeding test (Oomen et al., 1992) is recommended, next to the OECD Guidance Document 75 (2007) as one possibility to refine the risk on honeybee brood, if concern is raised on them. The method proposed in the EFSA GD is based on a rough description given by Oomen. In the past few years the method was adapted to current needs to be in line with more recent methods e.g. OECD GD 75. The major difference of the original paper compared to the EFSA GD is that honeybees should be fed chronically over a period of 9 days. In order to fulfill this requirement a sub-group of the German AG Bienenschutz developed a ring-test protocol for a chronic feeding test under field conditions and subsequently performed ring-tests in 2013 and 2014 (Lückmann and Schmitzer 2015). Beside acute Oomen feeding tests, chronic feeding of bee colonies is possible. The method was adopted accordingly and both scenarios can be performed in order to detect risk of plant protection products on honey bee brood. The poster summarized both, the adapted method for single feeding as well as the method for chronic feeding and describes obligatory assessments and optional evaluations.

References


Hazards of pesticides to bees
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- Proceedings -
History ICPPR-Bee Protection Group conferences
1st Symposium, Wageningen, the Netherlands, 1980
2nd Symposium, Hohenheim, Germany, 1982
3rd Symposium, Harpenden, UK, 1985
4th Symposium, Řež, Czech Republic, 1990
5th Symposium, Wageningen, the Netherlands, 1993
6th Symposium, Braunschweig, Germany, 1996
7th Symposium, Avignon, France, 1999
8th Symposium, Bologna, Italy, 2002
9th Symposium, York, UK, 2005
10th Symposium, Bucharest, Romania, 2008
11th Symposium, Wageningen, the Netherlands, 2011
12th Symposium, Ghent, Belgium, 2014
13th Symposium Valencia, Spain, 2017
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Foto
Pieter A. Oomen (Bumble bee Bombus lapidarius on thistle)

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