

The Turkish Journal of Occupational / Environmental Medicine and Safety

Vol:1, Issue Supplement 2

Web: http://www.turjoem.com

ISSN : 2149-4711

**Oral Presentation** 

## P94: USAGE POSSIBILITIES OF INSECTICIDE EFFECTIVE BIOCIDALS IN ORGANIC AGRICULTURE

<u>Muharrem Şimşek</u>, Mürşide Yağcı, Zuhal Erenler, A. Haluk Yaşarer Food Agriculture and Livestock Ministry

In conventional agriculture it is aimed that mainly increase in the amount of products, synthetic chemicals and fertilizers are used extensively to provide it. Today, terms such as safe food, human and environment health have become more important. Therefore, it is necessary to increase the share of organic agriculture which have less negative impacts to human health and environment, and sustainable use of natural resources. Herein environmentally insecticide effective biocidals to pest control in organic agriculture the use possibilities of these were discussed.

In terms of human and environmental health, environmental preparations used in organic agriculture and biocidal products are similar. Herbal based Azadirachtin, microorganism based Bacillus thuringiensis, Spinosad, Beauveria bassiana fungi are commonly used in organic agriculture. And also pyrethrum, rotenone, nicotine, ryania, quassine, sabadilla, potassium soap, gelatin, paraffin oil, viruses, metaldehit, kaolin are used in organic agriculture. Also it varies in different countries of the recommendation of organic insecticides and studies are being made to obtain new insecticides

Insecticides used in organic farming are limited according to conventional agriculture. Due to the philosophy of organic agriculture, in the control of the pests cultural measures and biological control are very important. The plant-based insecticides should be used in the final stage. Although being organic based, it is not mean that these insecticides are reliable. The side effects of insecticides to beneficial insects are known. The side effects of insecticides to beneficial insects are known. The side effects of as Bacillus thuringiensis, showing the minimum side effects, should be advised to be used in organic agriculture and development studies of the new insecticides used in organic farming should be carried on.

Keywords: Organic agriculture, environment, biocidal, pests