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【Scientific note】

小菜蛾對常用農藥之抗藥性研究【科學短訊】

李順連、李文台

*通訊作者E-mail:

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Abstract

摘要

小菜蛾為台灣十字花科蔬菜中最嚴重害蟲之一。為探究其在台灣之抗藥現狀，曾於本省蔬菜主要產區如頂湖、蘆洲、永靖、溪湖、麻豆、鳳山、高樹、林邊、宜蘭、花蓮等地採集小菜蛾，測定其對蔬菜常用農藥Malathion、Di-azinon、DDVP、Elsan (Phenthoate)、Phosdrin(Mevinphos)、Thiodan(Endosulfan)等之抗藥程度，發現本蟲對此六種藥劑，已呈現不同程度之抗性。就中對多種藥劑產生多重抗性之現象，尤為可憂，此或為近年用藥無效而致小菜蛾猖獗成災之主要原因。本文除導田間小菜蛾對上述農藥之抗性及其田間棲群抗藥程度之季節變化外，並就如何延緩抗藥性之發生問題加以討論。

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STUDIES ON THE RESISTANCE OF DIAMONDBACK MOTH (*PLUTELLA*
XYLOSTELLA) TO COMMONLY USED INSECTICIDES.

Sung-Lien Lee* & Wen-Tai Lee
Department of Applied Zoology
Taiwan Agricultural Research Institute

ABSTRACT

In order to understand the present status of insecticide resistance of diamondback moth, the resistance spectra of this insect strains collected from various vegetable field of Taiwan was determined by topical application using several insecticides. Most of the strains showed a relatively high level of resistance to commonly used insecticides such as malathion, diazinon, DDVP, mevinphos, phenthoate and endosulfan. The multiple resistance of diamondback moth to quite a few insecticides was also found in some field strains. This phenomenon might be considered to be a primary obstacle to successful control of the insect by several insecticides today in Taiwan.

小菜蛾對常用農藥之抗藥性研究

李順連* 李文台

台灣省農業試驗所應用動物系

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* Present address: Division of Planning and Coordination, National Science Council.

* 國家科學委員會企劃組