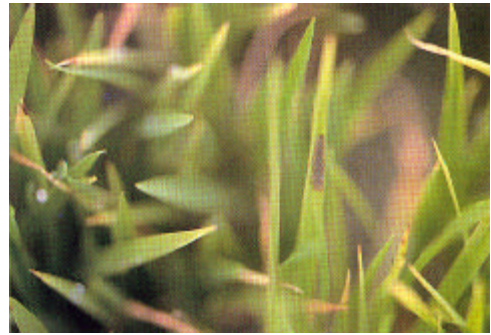


水稻螟蟲為害與防治基準

The Damage and Control Threshold of Rice Borer



二螟化蟲之成蟲
Adult of *Chilo suppressalis*.



二螟化蟲卵塊
Egg mass of *Chilo suppressalis*.



二螟化蟲之幼蟲
Larva of *Chilo suppressalis*.



二螟化蟲為害引起之水稻葉鞘黃變莖
Rice yellow sheath caused by *Chilo suppressalis*.



二螟化蟲為害引起之枯心莖
Rice dead hearts caused by *Chilo suppressalis*.



二螟化蟲為害引起之白穗
Rice white head caused by *Chilo suppressalis*.

水稻螟蟲為害與防治基準

近數年來三種水稻螟蟲之發生，在臺中地區已有增加之趨勢。一點螟蟲(*Tryporyza incertulas*)僅侷限發生於大甲溪中游沿岸附近，若疏於防治，常導致5~18%之白穗損失，但區下其他地區則未見其蹤跡。大螟(*Sesamia inferus*)發生相當普遍，一般密度不高，但在晚植稻或中間作常與二化螟蟲(*Chilo suppressalis*)混合為害，而引起水稻嚴重的枯心與白穗。水稻品種間被害程度有差異，目前栽培最廣的臺農67號屬於被害最輕的品種。而二化螟蟲為害水稻幼株期所引起之葉鞘黃變率(側黃莖)與枯心率之關係，其變數頗大，對於該蟲防治基準之訂定，目前可訂為當枯心率達5%以上時，始有防治必要，而葉鞘黃變率在11~13%時，則可引起5%左右之枯心率。故決定施藥與否，應視水稻移植後15~20天計算葉鞘黃變率是否達到此標準，此時期約為螟蟲2~3齡幼蟲期，施藥防治效果最佳。利用性費洛蒙誘引二化螟蟲雄蛾之效果極優，所誘集蟲數較誘蟲燈為多，可做為偵測該蟲年中發生消長之有利工具。

The Damage and Control Threshold of Rice Borer

There are three species of rice borer have occurred and increased gradually in recent years in central Taiwan. *Tryporyza incertula* occurred only along the Tachia river. Control is negligent and induce 5-8% yield lost, but other areas can't find the trace of this insect.

The occurrence of *Sesamia inferus* is very popular, but the population density is not very high. *S. inferus* can damage the mid-crop and late crop, while the *Chilo suppressalis* induce the white heart and white head. There are significant differences among rice strains, but Tainung 67 is seriously infected.

The relationship between the yellowish rate of leaf sheath and white heart caused by *Chilo suppressalis* on the young rice plants have great variation. The control threshold, when the white heart rate was over 5% and control is needed. The yellowish rate of leaf sheath is 11-13%, can induce about 5% white head. The chemical spraying is followed when the yellowish rate of leaf sheath have reached 12-13%, which is about 15-20 days after transplanting and 2-3 instar larvae occurred, we can get more effective result.

To utilize the sex pheromone to attract male *Chilo suppressalis*, get good effectiveness and attract more insects than those of light trap, and it could be a monitoring tool for the population fluctuation of this insects.

(圖由劉達修先生提供)