

**Project Title** : The Investigation on The Using Possibilities of Hand-Held Spinning Disc Sprayer (Ulva+) in Control of Sunn Pest (*Eurygaster* spp. Heteroptera: Scutelleridae)

**Start /End Date** : 2000-2002

**Supporting Body** : GDAR

**Leader** : Ekrem KAYA

**Co-researchers** : Hasan KOÇER, Mümtaz ÖZKAN, Vedat KARACA, Erkan YILMAZ

**Summary** : Trials were carried out against the first and third generation of Sunn-pest by using the 1/1 dosage of chemicals includes alphacypermethrin with knapsack sprayer and by using the 1/1, 1/2 and 1/4 dosages of that chemicals mixed 1/8 summer oil with hand-held spinning disc sprayer in Eceabat, Bigalı and Yalova villages of Çanakkale provinces in 2000 and 2001.

As a results of study conducted in 2000 and 2001; 96,90 % and 99,80 % effects were obtained from the knapsack sprayer with 1/1 (15 ml/da) dosage respectively, when 86,81% and 86,39% effects were obtained from the hand-held spinning disc sprayer with 1/2 (7,5 ml/da) dosage includes 1/8 summer oil respectively.

The effects of 1/4 (3,75 ml/da) dosage with the same instrument were 83,56 % and 65,27 %. The effect of 1/1 dosage of hand-held spinning disc sprayer was found as 96,53 % in 2001.

It was determined that aplication of 1/1 dosages of knapsack sprayer and hand-held spinning disc sprayer were maintain the sufficient effecty as result of variances analyses.

It seems likely to be hopeful ½ dosage application was made in 3 different region. According to the results taking in to account applicability with the density of pest, spike number per m<sup>2</sup> and the economic valve of field couldn't be considered.