

Project Title : Investigation on Cereal Ground Beetle (*Zabrus* spp. Coleoptera: Carabidae) Which is The Problem in Cereals in Aegan Region

Start /End Date : 1995-2001

Supporting Body : GDAR

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Summary : These studies was carried out between 1995 and 2000 in Kütahya, Balıkesir and Uşak provinces. In 1995 for the purpose of determination pesticides that can be used as alternative to recommended seed pesticides in WP formulations, Basudin 60 EC was tested with seed application against *Zabrus* spp. in two different districts. These product showed effectiveness cause a death rate of 100%.

In addition, in1995 *Zabrus* spp. that were collected from wheat areas of Kütahya (3 different districts), Uşak (Ulubey) and Balıkesir (2 different districts) were indentificated as *Zabrus corpulentus corpulentus* Schanin. , *Z.socialis* Schaum. , *Z.tenebrioides longulus* Reiche 1885 and *Z.segnis* Schaum .

In 1996, besides sampling *Zabrus* spp. relation between this pest and ecological conditions were investigated. It couldn't found a reliable result because soil moisture measurement was not realized.

In 1997, in Denizli and Muğla provinces studies were carried on with sampling of *Zabrus* spp. Futhermore, the effect of ecological conditions and different sowing periods on damage rate and biology of this pest were determined.

There were no differences found among sowing periods and damage rate statistically, but according to number of plants in m², highness and development it was concurred that the late sowing period was the best.