

Project Title : Design of Self-propelled Sprayer For Use in Greenhouse Vegetable Production

Start Date : 2011

Supporting Body : GDAR

Leader : Murat APAYDIN

Co-researchers : Dr. Öncül K. CANER, Gülcan YIKILMAZSOY

Summary : In modern economics the growth in the production is becoming the main target, and requires intensive and continuous supply of production inputs, but the side effects of this process is not considered at all. In this process, the natural resources are consumed with the same speed and intensity (Karaer ve Gürlük, 2003).

The vast majority of greenhouse farmers are making significant mistakes both in the selection and in the use of the pesticides.

Under this project with the design of remote control spinning disc sprayer attempts will be made to improve the smoothness in the distribution of drops especially to provide successful distribution of the pesticide to the inside parts of the leaf surface and to eliminate any human errors in pesticide applications and to minimize the advert effects of the pesticides to the environment and the humans. Also widely regarded as vegetables in the Aegean region and cause considerable damage against the gray mold (*Botrytis cinerea*) disease in greenhouse tomato production practices of the biological activity of the sprayer will be exposed.