

## ABSTRACT

### THE EFFECTS OF DIFFERENT PLANTING DATE ON AGRONOMICAL AND TECHNOLOGICAL PROPERTIES IN COTTON (*Gossypium hirsutum* L.) UNDER SHORT SEASON PRODUCTION CONDITIONS

Fatma ORHAN BARAN

M.Sc. Thesis Department of Field Crops

Supervisor: Prof. Dr. Mustafa Ali KAYNAK

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This study was made in 2012, in Aydın conditions in order to determine the effects of different sowing dates on agricultural and technological properties of cotton grown as a after crop after wheat. In this study, as the material, 10 cotton varieties/lines ( Ozbek 100, Ozbek 105, Cosmos, ST 373, Flash, Flora, Gloria, Julia, Fomosa, varieties and ADÜ Pure Line) which belongs to earliest group have been used. On 1 June and 15 June; the trial, according to the randomized complete block design with two factors, has been established as three replications.

In this study; sixteen features, including morphological, agronomical and technological, are examined. As a result of the delay in sowing, it is observed that there is a considerable decrease in plant height, branch wood, fruit branch, number of cocoons, seed cotton weight per cocoons and seed cotton yield; that scalloping is earlier, that flowering is delayed significantly, and also that finer fibers occurred in considerable amount. Although here was a significant difference among the varieties in terms of efficiency, ADÜ Pure Line shows the best performance with the varieties of Cosmos, ST 373, Gloria and Famosa.

**Keywords:** Cotton product in short season conditions, sowing date, yield and fiber quality properties