

Title	Determination of Yield and Quality Characteristics of Grapefruit Irrigated by Subsurface Drip Irrigation System under Deficit Irrigation Treatments
Number	-
Leader	Nazmi DİNÇ
Researcher/es	Mesut IŞIK, Dr. Köksal AYDİNŞAKİR Prof. Dr. Ruhi BAŞTUĞ, Dr. Süleyman BAYRAM
Budget	84 000 TL
Periods	01/01/.2016-31/12/2019
Organization of Funding Sources	General Directorate of Agricultural Research and Policies

Abstract: The study will be carried out to examine the effect of subsurface drip irrigation on yield and quality criteria on grapefruit planted in Batı Akdeniz Agricultural Research Institute. Three different irrigation levels (I1 = 100%, I2 and I3 = 67% = 33%) will be used in randomized block design with three replication. First irrigation will start when the soil moisture capacity reached 50% of readily available water. All treatments will be irrigated as much as the field capacity Irrigation applications will be start when the soil moisture consumed 30% of the moisture. Soil moisture content will be monitored gravimetrically. The amount of irrigation water to be applied will be determined taking into account the depleted water in the soil profile. Plant physiological development, body cross-sectional area and tree crown volume will be observed and measured during the growing period. Additionally, yield and quality criteria such as fruit yield, fruit weight, fruit width, fruit length, fruit shell thickness, number of cores, juice yield, acid, pH, and the amount of soluble solids will be determined. The research results obtained will be shared with farmers and related public institutions.