



Title	The Comparison of Surface and Subsurface Drip
	Irrigation System on Sesame Cultivation
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Abstract: When global warming and increasing competition over water resources is also taken into consideration irregularities in the consequent precipitation, the water allocated to agriculture is increasingly recognized that it had to be reduced. If sufficiently to meet the growing population's demand for food will increase in the future is another important issue. Therefore, methods that increase the product yield and saving of applied irrigation water, application and development is very important. In this study, aboveground and underground drip irrigation aimed to investigate the effect of sesame yield and quality characteristics. And increase yield per from unit area obtained and used to reduce the amount of irrigation water. Research will be conducted in the West Mediterranean Agricultural Research Institute Campus Practice Field to Aksu. Research will be organized in split plot design with tree replications. Irrigation in five different subjects (100%, 80%, 60%, and 0%) water application level will be established. All parcels will be watered until brought to field capacity after planting. When consumed favorable moisture in the topic of control will be started other topics watering. Soil moisture content will be monitored by gravimetric method. The favorable moisture in the plant roots will complete the field of diminishing the capacity will be applied as irrigation water. Some of the physiological parameters related to plant development in research (plant height, pod number, number of branches, leaf area) will be observed. Research on the yield and quality values (number of seeds in the capsule, the capsule weight, thousand grain weight per unit area obtained seed yield, oil content and fatty acid components) will be determined. Drip and subsurface drip irrigation under of sesame plant the value of yield response factor (ky), water use efficiency, irrigation water use efficiency values, evapotranspiration will be determined. Economic analysis of the results of the study will be used for irrigation methods. The results obtained in this study will be shared with our farmers and relevant public institutions.