Determination of Drip Irrigation Systems Performance Established in Antalya Manisa Region

Research Area	Sustainable Soil and Water Management
Research Program	Increasing Water Use Efficiency
Executive Institute	International Agricultural Research and Training Center
Supporting Institute/s	TAGEM, Provincial Directorate of Food, Agriculture and Livestock
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Project Summary:

In order to provide the expected profit from irrigation, it is essential that the water is applied to soil at the right time and correct amount. This condition can only be achieved by choosing the true irrigation method. Design application and performance of the irrigation system are as important as the choice of the correct irrigation method. Irrigation systems and methods should be evaluated in order to know the utilization rate of the plant water from the applied water. The criteria used for where and how water is lost. Thus, the irrigation water used in the irrigation system keeps a light on the measures to be taken to reduce water losses. Drip irrigation systems can show high performance in laboratory conditions but lose their performance in field conditions depending on various variables. For this reason, the best way to improve the drip irrigation system is to monitor and evaluate existing systems. This research will be carried out in order to determine the performance of the drip irrigation systems used in vineyard, oil and tomato in Manisa Central and Akhisar district. For this purpose, drip irrigation systems selected in the region will be evaluated in terms of system performance (uniformity, flow uniformity, flow change, pressure change etc.). The results of the research will be shared with farmers, related public institutions and organizations.

Key words: Drip irrigation, System, Performance, Manisa