

<b>Title</b>	Drip Irrigation System with applied nitrogen Washington Navel Oranges on Yield and Quality Characteristics Effects of Different Doses
<b>Number</b>	TAGEM/TSKAD/12/A13/P04/9
<b>Leader</b>	Dr.Dilek GÜVEN
<b>Researcher/es</b>	Dr.Cevdet F. ÖZKAN, Dr.Filiz ÖKTÜREN ASRI, Nuri ARI, Elif Işıl DEMİRTAŞ, Zeynep Eryılmaz ,Mehmet Ali Çelikyurt
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### Abstract

In this study, the orange Washington Navel, high yield and quality, to determine the most economical nitrogen dose should be applied by drip irrigation system in our country to solve the yield and quality problems arising from unbalanced nitrogen fertilization on orange cultivation, preventing excessive nitrogen fertilizer use in orange farming, for the environment and human health. It was conducted in order to prevent damage. Trial Antalya in the West Mediterranean Agricultural Research Institute, grafted on sour orange rootstock, 13-year-old from Washington Navel tree, randomized block experimental design 4 replications 5 application (0, 350, 700, 1050, 1400 g N / tree) is planned to be. In December of 2012, yields were preliminary, since February 2013 fertilizer application is made in accordance with the timetable set out in the project work, the results are presented. fertilizer doses specified in the project implementation in 2014, the second year of the experiment was applied by drip irrigation system on a weekly basis between February and August. In leaf samples from each plot in September 2014, total dry matter analysis of macro and micro elements and Inal Few (2008) as reported by. It made harvest of fruits in December 2014 and in fruit samples taken in each application with falling yields per tree, fruit weight, fruit length, fruit width, index, shell thickness, number of slices, juice content, soluble solids content, titratable acid content of and sap pH values were determined. When evaluated in 2013 and 2014 as a result of the data regression analysis of yield when irrigation water and nitrogen fertilizer application on the optimal dose should be given in terms of yield 715 g N / tree was found to be.