

ABSTRACT
ECONOMIC ANALYSIS OF GRAPEVINE NURSERIES AND
EVALUATION OF THOSE FARMS' EFFICIENCIES: THE CASE
STUDY OF MANİSA

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The grapevine nursery that is required by viticulture industry is provided by relatively a few nursery producers. Two thirds of total grapevine nursery production in Turkey is produced in Manisa region which has long-standing background on vine cultivation and produced a large scale grape production in that area. In this study, production costs of grapevine nursery farms in Manisa region were calculated and efficiencies of those farms were also determined. Data was obtained from 17 grapevine nursery farms that produced the nurseries with graft activated and also 14 farms that produced the nurseries without graft (native) in Manisa via the survey studies. According to the research study, the average cost, revenue and net revenue unit of per grapevine nursery with graft were calculated as 0.94 TL, 2.73 TL and 1.79 TL, respectively. On the other hand, the average cost, revenue and net revenue unit of per grapevine nursery without graft were calculated as 0.41 TL, 0.49 TL and 0.08 TL, respectively. The efficiencies of the farms were determined by Data Envelopment Analysis. In the result of the analysis, in the nursery farms that produced the nurseries with graft average efficiency scores for Constant Returns to Scale (CRS) and Variable Returns to Scale (VRS) approaches were determined 0.830 and 0.906, respectively. These efficiency scores were measured 0.966 and 0.980 in the nursery farms without graft (native), respectively. Also this conclusion represented that VRS frontier more flexible than CRS frontier as consistent with the theory that indicating the data is enveloped tighter. Thus, if the average grapevine nursery farm which produced the nurseries with graft can study in the level of an efficient farm, 9.4% of saving in the inputs employed will be ensured.

Keywords: Grapevine nursery, viticulture, Data Envelopment Analysis