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Functional Analysis and Calculating the Production Cost of Winter Wheat (Triticum aestivum L.) on the Farms of Akyurt District of Ankara Province

Erdemir GÜNDOĞMUŞ Ankara Üniversitesi Ziraat Fakültesi Tarım Ekonomisi Bölümü, Ankara-TÜRKİYE Abtract: The aim of this research is to determine the physical input requirements and production cost for the production of winter wheat and also to investigate input/output relationships on the farms of Akyurt district. The data used in this research were collected from 70 farms through a survey that were determined by stratified random sampling method from 20 villages in the year of 1994. It was found that for the average of farms, per decar 2,54 hours labour and 1, 23 hours tractor power were needed and 1kg of winter wheat production cost is 2.903, 1 TL's. In this research, the Cobb-Douglas type production function was used and for determining the relationship between production quantity and inputs, the function derived in this model is; Y=2,32X 2 0,16065 X 2 0,20527 X 3 0,16901 X 4 - 0,26709 X 5 0,0516 X 6 0,7134 The detemination coefficient is R 2 =0,998. The sum of production elasticity is Σb i =1,0328.

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