

EFFICIENCY ANALYSIS ON CATTLE FATTENING IN TURKEY

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Abstract. In Turkey, it is a common knowledge that there are many structural and sectoral problems in cattle fattening which is closely related to the beef production. Nowadays, due to these emerging problems, beef price has greatly increased and beef import began to cope with higher prices. Main purpose of this research is to determine the technical efficiency and working conditions of cattle fattening farms in Aydin province of Turkey, where cattle farming has progressed for the last decade. Efficiency scores are calculated with Data Envelopment Analysis and Stochastic Frontier Analysis techniques. Primary data used for this situation are obtained by survey technique from cattle farms which are determined by sampling method in Aydin province. The average technical efficiency calculated by both methods is found as 0.803 and 0.710. When analyzing the calculated technical efficiency of the farms, it is found that technical efficiency is increased by the scale of the farm. According to results of analyses, there is a positive relation between efficiency scores of cattle fattening farms, and certain factors such as attending training and extension events, general farming experience, and cattle fattening experience. It is found that through a few critical improvements cattle fattening farming can be improved and as a consequence of this situation beef prices may settle down to the average after this process.

Keywords: cattle fattening, DEA, efficiency, stochastic, Turkey.