

# 台灣酪農記帳戶之成本效率分析

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## 摘要

In order to explore the performances of Taiwan's dairy production, this paper adopts the Data Envelopment Analysis (DEA) to evaluate the cost efficiency, technical efficiency and allocative efficiency of the dairy farms participating in the record-keeping program in Taiwan across the periods of 1996-2000 and 2003-2007. The approach developed by Tone (2002) is employed to compare with the traditional method of Färe et al. (1985). Empirical results show that the average cost efficiency during 2003-2007 deteriorates as compared to the period of 1996-2000. The possible explanation is that farmers fail to respond promptly to adjust their input mixes for the increase of feed price which lower their allocative efficiency. Besides, the location of farms is no longer a factor influencing farms' performance after 2003. However, scale expansion and the use of more Total Mixed Ration (TMR) are beneficial to the cost efficiency performance. Thus, it is important for government to use proper strategy to encourage farms to expand their operating scales and to improve their allocative efficiency.

關鍵字：Data Envelopment Analysis, Cost Efficiency, Dairy Farms