



## **The Efficiency of Development Investment in Agricultural Production Applying Good Agricultural Practices (Gap) Standard of Household - Case Study of Grapes and Apple in Ninh Thuan Province, Vietnam**

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### **Abstract**

Development investment of agricultural production with Good Agricultural Practices (GAP) standards is an objective trend of sustainable agriculture. The study used methods of the Data Envelopment Analysis (DEA), compare means and Difference in Differences (DID) to Assessing the effectiveness of development investment in agricultural production applying GAP standard of household with grape and apple production in Ninh Thuan province, Vietnam. The results indicate that participation in GAP does not really make a difference in technical efficiency (TE) compared to the rest of the group due to the large dispersion, but it led to an increase in the Total Factor Productivity Change (TFPCH) higher than the other groups. Therefore, it is necessary to find solutions to promote investment in agricultural production following GAP standards.

**Keywords:** GAP, Investment efficiency, Agriculture, Farmer household, Ninh Thuan, Vietnam