

This thesis analyses determinants of technical efficiency (TE), its change and scale efficiency on an unbalanced panel of more than 700 Ghanaian cocoa farmers collected between 2004 and 2010. Using variable returns to scale data envelopment analysis the TE scores are obtained and the mean TE found is 35.4%. In second stage, random effects Tobit regression is used to investigate the determinants of efficiency and number of significant determinants is found from categories of farmers' characteristics, different technical specifications of the farm, focus on farming, farm management style and investments. Moreover, this thesis contributes to the efficiency debate by researching determinants of efficiency change, finding gender and savings to have significant positive effect among others.