

Saravadee Russamiputi 2007: Cost-Benefit and Factors Affecting the Participation on Good Agricultural Practice of Nam Dok Mai Mango Production of Farmers in Chachoengsao Province. Master of Science (Agricultural Economics), Major Field: Agricultural Economics, Department of Agricultural and Resource Economics. Thesis Advisor: Associate Professor Somsak Priebprom, Ph.D. 150 pages.

The main objectives of this study were to compare cost and benefit of Nam Dok Mai mango production between farmers who participated and non-participated in producing mango under a good agricultural practice (GAP) system and to analyze the factors affecting a decision of farmers' participation on the mango production under a GAP system in Chachoengsao province. A total of 77 sample mango farmers were purposively chosen and interviewed to generate data for the analysis. A financial investment analysis and a logit model were employed and used as analytical tools in this study.

The analytical results from the financial investment analysis indicated that both Nam Dok Mai mango production investments under GAP and non-GAP systems were commercially worthiness as the net present value (NPV), benefit-cost ratio (BCR), and the internal rate of return (IRR) of both investments were positive, greater than 1, and higher than the opportunity cost of the capital (4.32%), respectively. The comparative analysis of both investments showed that the Nam Dok Mai mango production under a GAP system can generate the higher profit measured in term of NPV than the Nam Dok Mai production under a non-GAP system.

The results from the logit model indicated that farm size, chemical expenses, farm gate price of mangoes, and income from mango farming were the significant factors affecting the decision of farmers' participation in the GAP mango production.

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