

**Supachai Sangmongkol 2019: COMPARATIVE BENEFIT-COST OF GREENHOUSE AND OPEN-FIELD CANTALOUPE PRODUCTION IN UTHAI THANI** Major of Science (Agribusiness), Major Field : Agribusiness , Department of Agribusiness and Resource Economics, Independent Study  
Advisor: Assistant Professor Kumpanart Pensupha, Ph.D. 71 pages.

The objectives of this research were to compare the costs and return between greenhouse and open-field cantaloupe production in in Thap Luang Subdistrict , Ban Rai District , Uthai thani province. Data were collect by survey from 10 Open-field farmers in Thap Luang Subdistrict and 2 Greenhouse farmers in Thap Luang Subdistict for analyzing the return. Using the payback period method, net present value method and internal rate of return method. The Results show that the rainy season is the most productivity for cultivating cantaloupe in Thap Luang Subdistrict which is different from other areas because of the slope area in Thap Luang. The greenhouse farmers in Thap Luang have average total cost 33,257.25 per rai and average return for 216,655.7 per rai while The open-field farmers in Thap Luang have average total cost 33,286.84 per rai and average return for 154,726.44 per rai

The analytical results indicated that the net benefit or NPV of greenhouse farmers was over open-field farmers when not borrowing. In Borrowing, NPV of open-fiend farmers was greater than greenhouse farmers. The payback period of greenhouse farmers was 2 years 3 months and 2 days. IRR was 26 %

Recommendations for the future research , Farmer should produce cantaloupe by open-field rather than greenfield production because of the lower cost due to slope area. However, The media research should study the different area for better result and research the cantaloupe price in different season for the real income of farmer

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Independent Study Advisor's Signature