

Chakkrti Meeyai. 2008. **Management production of sugar cane sub-surface drip irrigation**

**System: A case study of Tungjit Farm Crop, Tambon Ban Dung, Amphoe Ban**

**Dung, Udonthani.** An Independent Study Report for the Master of Science in

Agribusiness. Graduate School. Khon Kaen University

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### **Abstract**

Study of Management production of sugar cane sub-surface drip irrigation system: a case study of Tungjit Farm Crop, Tambon Ban Dung, Amphoe Ban Dung, Udonthani.

The objectives of the research were to study sugar cane farm management and possibility to grow sugar canes by use sub-surface drip irrigation system. It also seeks to explore valuable of investment, problems and difficulties of agriculturist. From the study found that to grow sugar canes with sub-surface drip irrigation system, it support stable watering canes for the whole plot.

In additional, it provides ability to chemical fertilizer for sugar canes in specific period of times, which it increase high growth rate. However, it has to spend a lot of money to invest in sub-surface drip irrigation system, and it is difficult to maintenances. In addition, agriculturist cannot reap products by burn and cut sugar canes.

From the financial analysis, it appear that the investment sub-surface drip irrigation system 95 rai in 10 yeaes has net present value at 4,189,640.61 baht, internal rate of return at 17.48 percent, and benefit cost of ration is 1.901.

The plant disease is an important problem of sub-surface drip irrigation system. For example, white leaf is the major plant problem. Agriculturists have to destroy whole plot to stop the disease to spread to other plots.