

Effect of Jack Bean (*Canavalia ensiformis*) for Soil Improvement and Weed Control in Smooth Cayenne Organic Pineapple Production Follow in International Organic Standard

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Objectives

1. To determine the effect of jack bean for soil improvement on yield and quality of Smooth Cayenne organic pineapple production follow in international organic standard
2. To determine the effect of jack bean compare with compost for soil improvement on pineapple growth and changing of soil element
3. To determine the effect of jack bean compare with black plastic mulch for weed control in organic pineapple production

Methods

Field experiments were conducted with the Smooth Cayenne pineapple in organic farming system at Trad province, Thailand. Suckers of pineapple were planted with a double – row planting system (100 cm x 50 cm x 25 cm). The unit plot size was 6.0 m x 6.0 m. The experimental design was 2 x 2 x 2 Factorial in RCBD. Factor 1 was soil improving method with compost compared with jack bean during field preparation. Factor 2 was mulching experimental plot with black plastic compared with bare soil and factor 3 was planting jack bean between bed spacing compared with not planting. Data collection was growth characteristic, yield, fruit quality and weed data.

Results and Discussion

This project is researching now, not finish yet.

Conclusion

If this project success. Planting jack bean in organic pineapple farm will be the new alternative method for soil improvement and weed control.

Keywords:

Jack Bean, organic pineapple, mulching, black plastic, soil improvement

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