

Suphachai Sukhaphong and Sukhum Pomplung 2015: Design of Aeroponics system and study of appropriate nutrient solution application rate: “A case study of Red oak Lettuce “Bachelor of Engineering (Civil Engineering-Irrigation) Irrigation College affiliated to Kasetsart University

Soilless Culture in Aeroponics system was one alternative for people, who got some limit land use and lack of nutrient. The highlight in this alternative was the nutrient of solution can sprayed to direct the plant root so that it got the nutrient always and by means of the electric energy for supported working. It was a cause of the high cost also, In this case was the begin for start working should be reduce, Cost with control nutrient of solution duration different from the normal method

The researcher have been created red oak lettuce experimental design in 5 boxes (5 treatments) the objective was studying the optimum nutrient of solution duration for reduce high cost. For controlling with the AB 100% nutrient of solution in every boxes but different in nutrient of solution duration only. It can show, box 1: always, box 2: every 30 mins, box 3: every 1 hr, box 4: every 1.5 hrs and box 5: every 2 hrs, recording was 2 characters (1) Physical data (vegetative growth) it means the width , length of leaf height of plant, fresh and dry weight (2) Cost analysis until to harvesting index 45 days. The experimental appeared the box 2 , we sprayed nutrient of solution every 30 mins can induce the most vegetative growth but had the electric energy lower than box 1 it's equal 244.65 bath.

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Students

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Chairman