**ABSTRACT**

Hydroponics is one of the future agricultural systems as it can be cultivated in various places and beneficial to the community for gardening using soil waterless media that is useful for growing vegetables and hydroponic fruits more effectively than conventional farming to create hydroponic conditions at any time to develop good plants with a view of the conditions of pH, EC, Temperature. Fertilizers or nutrients, which is one way to grow hydroponic plants is actually a dose of nutrients in plants that differ from the number of fertilizer needs for plants. In previous research the fertilizer used by the hydroponics plant can determine the amount of fertilizer that is given when the fertilizer is exhausted, but if on a wide scale in a container of 20 liters of air with 500 ml of each bottle and the endless fertilizer or fertilizer. So it is necessary to predict the provision for this company using Simple Linear Regression Method (Simple Linear Regression Method) that is forecasting with the study of the causal relationship of the obtained results is predicting the amount of fertilizer used in the same amount of the required amount of fertilizer. determined.

Simple linear regression method on hydroponics to know the cause and effect relationship by producing forecasting. Results obtained from simple linear regression forecasting with simple linear regression. The results obtained are if the dose needs 5 ml amount of nutrients released, from the predicted number of issue with the amount of nutrition/ppm as much as 1000ppm and also if the number of nutrients/ppm 1000 how many needs dose per-ml for the crop then it's prediction result that there are 5 ml.

Keywords: Hydroponics, simple linear regression method, Forecasting, fertilizer Dose, Number of fertilizer, Large-scale