CAPITULO VIII
SUMMARY

8 SUMMARY

"HYDROPONICS EVALUATION OF BARLEY (*Hordeum vulgare*), HYDROPONICS CORN (*Zea mays*), ALFALFA (*Medicago sativa*) AND MIXING FODDER IN FOOD GUINEA PIG (*Cavia porcellus*), IN ANTONIO ANTE, IMBABURA PROVINCE.

This research was conducted in the province of Imbabura, Cantón Antonio Ante, San Roque Parish, Sacred Heart Fields located 2400m.s.n.m.

The breeding of guinea pigs is an activity that has gradually occupied space within the livestock industry, as their consumption has increased in the urban population which has led many people to engage in farming as an alternative economic activity.

The research objectives were to evaluate the response of guinea pigs to different diets, the advantages and disadvantages of raising guinea pigs with hydroponic green fodder (FVH), assess which diet provides the best result, reduce production costs of nutrition guinea pigs on a holding, transfer and disseminate technology supply with FVH.

The study was a factor in different types of diet based on: hydroponic barley (T1), corn hydroponic (T2), alfalfa (T3) and forage mixture (ray annual gras, oats, red clover, alfalfa) (T4).

We used a completely randomized design with four treatments and five repetitions

each experimental unit also consisted with five randomly selected guinea pigs. It use the Duncan test at 5%.

Results showed that feed intake, weight gain and feed conversion best results were obtained with T4 followed by T3 and between hydroponic green fodder (FHV) the T1 to T2 supero.

To return to the channel there is not much difference between the T2, T3 and T4 except that it was the lowest T1.

As for the downside costs of FVH is that it needs an initial investment but eventually comes to lowering production costs.

Yields per treatment showed that for the production of FVH T1 and T2 you need a very small area compared with T3 and T4 is needed from a large area of land for production.

With the results that may be recommended if it has large tracts of land are eligible for T4, otherwise opt for the FVH with the help of a supercharger.

The infrastructure for the production of FVH should be moisture resistant materials or be pretreated with a good spray irrigation system.