

## CHAPTER V CONCLUSION AND SUGGESTION

### A. Conclusion

This study presents the growth and productivity of two Water Spinach vegetables (Kangkung Unggul Bika<sup>R</sup> and Kangkung Bangkok LP-1<sup>R</sup>) on two different Hydroponic culture subsystems (Floating Raft and Pumice Bed) in an Aquaponic system. In general, the yield and growth of two Water Spinach varieties are the same and these vegetables are not affected by Hydroponic subsystems in all stages of testing. Despite this, result of study showed Hydroponic culture subsystem of Floating Raft less efficient than Hydroponic culture subsystem of Pumice Bed based on the growth and productivity of the Water Spinach varieties on the 14 and 21 test dates, respectively. Finally, the advice of the study does not re-comment the treatment (Floating Raft Hydroponic culture subsystem and Kangkung Unggul Bika<sup>R</sup> variety) due to the poor result for height of shoot, length of petiole and reality of yield of Kangkung Unggul Bika<sup>R</sup> variety are probably at the 21 date of testing.

### B. Suggestion

Based on this experiment, the study should examine the mineral nutrients of two different Hydroponic subsystems and plants uptake those mineral nutrients. In addition, fish, feed rate, quality of water, microbial, plant and design of Aquaponic system need to check how to balance them. Therefore, the experiments have to spend more time to implement.

