

ABSTRACT

An experimental setup of hydroponics and aquaponics was established at Environmental Engineering Department, NED University, for the production of food, using Nutrient Film Technique. It was evident from the results that the growth of hydroponics was greater and healthier in comparison to aquaponics. The difference of growth was due to the lack of available nutrients in the aquaculture wastewater. The growth of plants in aquaponics was less as the leaves did not acquire the true color and size, the roots grew longer in search of nutrient. While the plants of hydroponics were lush in color and their roots developed a network to drive more nutrients into the plant. On the other hand, the fish growth was phenomenal, as they survived the harshest weather.