IMPACT: Journal of Research in Applied, Natural And Social Sciences (IMPACT: JRANSS)
Vol. 2, Issue 2, Dec 2016, 39-44

STUDY ON THE CULTURE PRACTICE OF *L. VANNAMEI* IN THE FRESHWATER POND

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ABSTRACT

The investigation was the carried out on the culture of *L. vannamei* in the freshwater Agriculture pond in Danti, Valsad district, Gujarat, India. The investigation was done in three culture ponds tat different stocking densities in monsoon season from July to October. In the present research water parameter such as temperature, pH, Salinity and dissolved oxygen of pond water were analyzed every fortnight. Also growth rate and harvesting data of all shrimp culture pond were recorded. Water quality parameters such as temperature and Dissolved oxygen were maintain throughout the culture period but salinity was low and pH was higher. Harvesting data such as average body weights of the shrimp for pond 1, 2 and 3 were 21g, 25g, and 20 g; survival rate were 67, 88, and 86 %; FCR was 1.5, 1.4, and 1.45 respectively were recorded after 112 days of pond culture period. The relationship between average body weight and stocking density is highly significant ($p < 0.01$). From The present investigation we concluded that *L. vannamei* culture is successful in fresh water pond and the growth of shrimp is directly related to stocking density.

KEYWORDS: Litopenaeus Vannamei, Growth Rate, Stocking Densities, Water Quality, Statistical Analysis