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RESEARCH ARTICLE

Effect of different sources and levels of nitrogen on physico-chemical characteristics of papaya cv. COORG HONEY DEW under U.P. sub-tropic conditions

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SUMMARY

The present experiment was carried out at Sam Higginbottom Institute of Agricutlure, Technology and Sciences, Deemed University, Allahabad, U.P to study the effect of different sources and levels of nitrogen on physico-chemical characteristics of papaya cv. COORG HONEY DEW. The experiment was laid out in a Randomized Block Design with seven treatments consisting of nitrogen (T_1=150g, T_2=250g and T_3=350g per plant per year as urea), nitrogen (T_4=150g, T_5= 250g and T_6= 350g per plant per year as ammonium sulphate) and T_0=control (no application of fertilizers), each treatment was replicated four times. The maximum length of fruits (26.57 cm), width of fruits (47.65 cm), specific gravity (0.88) was noted under treatment T_2 followed by treatment T_6. The maximum total soluble solids (13.5 %) were noted under the treatment T_4 followed by treatment T_5 and treatment T_1. The total sugar (12.5%) and titrable acidity (0.15%) was recorded maximum with the treatment T_1 followed by treatment T_4. The maximum ascorbic acid content (50mg/100g) was noted under treatment T_1 followed by treatment T_6. The maximum pH (5.6) of papaya fruit juice was recorded under treatment T_1 followed by treatment T_0.

Key Words : Papaya, Fruit, Coorg honey dew, Physico-chemical, Nitrogen

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