



RESEARCH ARTICLE :

Effect of growth regulators and micronutrients spray on vegetative growth of litchi (*Litchi chinensis* Sonn.) cv. CALCUTTIA

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SUMMARY : Being one of the finest fruit litchi still need a major attention towards the problem like irregular flowering, poor fruit set, heavy fruit drop, low yield, fruit cracking and poor quality to meet the growing demand of national and international market. Bio-regulators and micro-nutrient are being used by the growers to increase the yield by improving the yield attribute parameters. The present experiment was laid out at the Regional Horticulture Research and Training Station, Dhaulakuan, Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni-Solan (HP). Keeping the objective to increase the yield, in the recent studies; trees were subjected to 19 treatments viz., GA₃ (T₁=25 ppm, T₂= 50 ppm, T₃= 75 ppm), CPPU (T₄= 5 ppm, T₅= 10 ppm, T₆= 15 ppm), ZnSO₄ (T₇=0.25%, T₈=0.50%, T₉=0.75%), Boric acid (T₁₀=0.25%, T₁₁=0.50%, T₁₂=0.75%), GA₃ + CPPU (T₁₃= 25+5 ppm, T₁₄= 50+5 ppm, T₁₅= 75+5 ppm), Boric acid + ZnSO₄ (T₁₆= 0.25+0.50%, T₁₇= 0.50+0.50%, T₁₈= 0.75+0.50%) and T₁₉, control. The plants treated with boric acid 0.75% + ZnSO₄ 0.50% recorded highest annual shoot growth, tree volume and tree height. From the above research it could be concluded that Boric acid (0.75%) + ZnSO₄ (0.50%) should be treated to the plant for better vegetative growth and yield.

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