

PHYSIOLOGICAL STUDIES ON Livistonia chinensis , R . BR .
1- INFLUENCE OF SOME GROWTH REGULATORS AND FOLIAR NUTRATION

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ABSTRACT

The response of Livistonia chinensis to different foliar nutrition levels in combination with various GA3 , IAA or Kinetin concentration treatments were studied .

Plant height , number of leaves / plant , petiole length , longitudinal length of leaf blade and leaves fresh weight were considerably increased by both levels of fulifertil but the higher level 0.6% generally more effective .

Concerning growth regulators , the higher concentration of either GA3 or Kinetin gave more stimulative and enhancing effect for different growth parameters tested .

The combined treatment , fulifertil at 0.6% plus GA3 at 100 ppm and fulifertil at 0.3% plus kinetin at 125 ppm proved to be the most effective one for producing better growth characters of Livistonia chinensis plants .

Chemical analysis of leaves showed higher N and P percentages due to the application of fulifertil at 0.3% plus Kinetin at 125 ppm .