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Abstract: The present investigation was undertaken at Horticultural Research Centre, Patharchatta of G. B. Pant University of Agriculture & Technology, Pantnagar, Udham Singh Nagar, Uttarakhand to see the effects of different bagging materials materials (brown paper bags, black polythene bags, muslin cloth bags, cellophane bags, single parchment paper bags, double parchment paper bags, triple parchment paper bags, net bags, news paper bags and control) eight bagging dates (48 days before normal harvest, 42 days before normal harvest, 36 days before normal harvest, 30 days before normal harvest, 24 days before normal harvest, 18 days before normal harvest, 12 days before normal harvest and 6 days before normal harvest) during the year 2016 and 2017. Among the various bagging materials used, brown paper bags, triple parchment paper bags and black polythene bags were found to significantly improved most of the quality parameters of litchi viz. skin colour, fruit cracking, fruit retention, browning, fruit weight, fruit volume, pulp weight, pulp/stone ratio, TSS /acidity ratio, juice and seed antioxidant, phenol & flavonoid content. The specific gravity did not influence by bagging treatments. On other hand, fruits bagged 48 days before normal harvest showed significant results for all parameters. Economics calculated for brown paper bags and triple parchment paper bags showed feasibility in litchi cultivation. The net return per rupee was 0.72 and 3.35 respectively. On the basis of present study, it may be concluded that bagging of litchi fruits 48 days before normal harvest with brown paper bags, triple parchment paper bags and black polythene bags may be recommended to enhance the skin colour and eating quality of litchi fruit for remunerative litchi cultivation under tarai region of Uttarakhand.

Subject: Horticulture

Theme: Climate Change

Research Problem: Litchi

These Type: Ph.D

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