

EFFECT OF SUCROSE LEVELS ON POSTHARVEST LIFE OF CUT ROSES (CV. DUTCH HYBRID) IN CHITWAN CONDITION

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The study was conducted at Horticulture laboratory of Nepal Polytechnic Institute, Bharatpur-12, Chitwan, Nepal from 5th January 2015 to 2nd February 2015. The experiment was laid out in completely randomized design (CRD) with 5 treatment .i.e. 2%, 4%, 6%, 8% and 10% sucrose with 100ppm AgNO₃ and 150 ppm as base solution and replicated thrice. The postharvest life of rose was found to be significantly different on different observations. Bending of flower head during the experiment was high in flower pulsed with (2%) (7 days) and least in flower pulsed with (6%) (21 days) of sucrose. Similarly the higher water uptake was found in the treatment treated with (6%) of sucrose concentration (176.933ml) whereas lower water uptake was observed in the (2%) of sucrose concentration (124.00ml). There was significance difference on flower bloom. The early flower bloom was recorded in flower pulsed with (4%) (8 days) and the late flower bloom was recorded in flower pulsed with (8%) (15 days). The highest vase life was observed in the flower pulsed with (6%) (23 days) and lower vase life was observed on flower pulsed with (2%) (10 days). Among the different concentration of preservatives sucrose, 6 % was found highly effective for the long lived of cultivars. So that flower treated with 6% of sucrose solution enhances the postharvest life of cut roses which is recommended for the rose growers and flower marketers of Chitwan.