

Abstract

An experiment was conducted to know the effects of growth regulators (GA, BA and Paclobutrazol), sucrose and water sprays on postharvest life of chrysanthemum cv. Karnool loose flowers. All the treatments (growth regulators/chemicals) including water spray significantly reduced the weight loss of chrysanthemum loose flowers when compared to control (without spray) on all the days of the storage. On first day, significantly the lowest weight loss of 7.43 percent was recorded in flowers sprayed with sucrose (2%) + BA 25 ppm followed by sucrose + GA at 100 ppm (9.62%). The weight loss was maximized in control flowers (37.82%). The trend remained same on second and third days also. On fourth day, flowers treated with 2 percent sucrose + BA (25 ppm and 50 ppm) or GA (100 ppm) lost minimum weight of 50.71 percent to 54.62 percent whereas control flowers lost maximum weight of 70.71 percent. Significant differences were observed in percent fresh flowers on fifth day of storage as influenced by various postharvest treatments. BA (25 and 50 ppm) and GA (100 ppm) with or without sucrose, paclobutrazol (25 ppm) and GA (50 ppm) with sucrose (2%) and only water spray treatments, helped to maintain good amount of fresh flowers on fifth day of storage in the range of 8.72 percent to 16.72 percent when compared to control flowers (2.91%). However, the highest percent fresh flowers (16.79%) were recorded in the treatment combination of sucrose (2%) + BA (25 ppm).