TitleThe effects of retail display conditions on postharvest performance of cut *Gerbera jamesonii*AuthorT.A. Nell, R.T. Leonard and A.M. AlexanderCitationISHS Acta Horticulturae 847:51-58. 2009.Keyword*Gerbera jamesonii*; postharvest; scape bending; storage; temperature; vase life; senescence

Abstract

This study evaluated a range of retail temperatures (2, 6, 10 and 21°C) and display times and compared the effect of wet versus dry held flowers during display using floral coolers on the postharvest performance of several varieties of cut *Gerbera jamesonii*. Relative fresh weight after 2 days in retail display was 25 to 38% higher when maintained at or above 6°C compared to 2°C. After 4 days in display, fresh weight continued to increase at 2 and 6°C, while flowers displayed at 10 and 21°C lost 26% and 89% of their fresh weights, respectively, compared to 2 day weights. Displaying Gerbera at or below 6°C promoted severe scape bending (>60°) of several varieties while there was virtually no scape bending when displayed at 10°C. Displaying *Gerbera* in retail display coolers (2, 6 and 10°C) improved vase life up to 44% compared to displaying flowers at room temperature of 21°C, especially when flowers were held more than 2-3 days. 'Sunset' lasted longest at 6°C after 4 days in display, while 'Foske' and 'Mistike' lasted longest at 2°C. No differences in vase life were found among the 3 display temperatures for 'Malibu', 'Primrose' and 'Meriva'. There was no effect of dry compared to wet held flowers on vase life when displayed for 3 days, however, when the display temperatures, while no differences between wet and dry held flowers were found in 'Meriva'. Flowers displayed wet had a greater incidence of stem collapse in postharvest compared to dry held stems.