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シュッコンカスミソウ切り花の乾式および湿式輸送条件下における  
輸送時間と温度が花持ちに及ぼす影響  
宮前治加・伊藤吉成<sup>\*</sup>・神藤宏

和歌山県農林水産総合技術センター 暖地園芸センター

Effects of Transportation Time and Temperatures under Dry and  
Wet Types Transports Conditions on the Vase Life of Cut Gypsophila Flowers

Haruka Miyamae, Yoshinari Ito and Hiroshi Shinto

*Horticultural Experiment Center, Wakayama Research Center of Agriculture Forestry and Fisheries, Sioya-cho,  
Gobo, Wakakayama 644-0024*

摘 要

シュッコンカスミソウ切り花の適切な輸送条件を明らかにするため、輸送時間、輸送温度および乾式と湿式という2種類の輸送方法が切り花の品質保持に及ぼす影響を検討した。

湿式輸送では、20℃、72時間の常温長時間の輸送で、輸送中に著しい切り花重の増加と開花の進行が認められたが、輸送中に萎凋花は発生しなかった。一方、乾式輸送では、10℃、24時間の低温短時間の輸送でも輸送中に切り花重が10%程度減少し、輸送直後の鮮度は低下した。

切り花の花持ちは輸送温度と輸送時間の影響を受け、輸送時間が長く、輸送温度が高いほど花持ち日数は短縮し、同じ輸送条件であれば、湿式輸送は乾式輸送より花持ちが優れた。特に、20℃で48時間以上の乾式輸送では花持ち日数は著しく短縮した。

以上の結果、湿式輸送は乾式輸送に比べて切り花の品質を保持しながら輸送できることが確認された。特に輸送温度が20℃下での輸送においても乾式輸送ほど著しい花持ち低下は認められなかった。

Summary

To clarify suitable transport conditions of cut gypsophila flowers, effects of temperature (10 and 20°C), time (24, 48 and 72 h) and two types of transports (dry- and wet-transport) on vase life were investigated. In wet transport at 20°C for 72 h, fresh weight and rate of open florets increased during the transport, but wilted florets were not observed. In contrast, in dry transport, fresh weight decreased by 10% during the transport at 10°C for 24 h, indicating that the freshness of flowers deteriorated after transport. The vase life of cut flowers was influenced by transport temperature and time. The vase life of flowers was shorter with raising the temperature as well as increasing time of transport. The vase life of flowers in dry transport tended to be shorter than that in wet transport when transport temperature and time were the same. In particular, vase life was markedly shortened by dry transport at 20°C for more than 48 h. The results obtained in this study clearly showed that wet transport was better than dry transport for the vase life of cut gypsophila flowers. In particular, the vase life of flowers wet-transported was not shortened compared with those that were dry-transported when transport temperature was 20°C.

<sup>\*</sup>現在：(財)わかやま産業振興財団