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**27. © Effects of seed source and pre-planting treatment on emergence of *Juniperus scopulorum* Sarg. in a Great Plains nursery.** Tauer, P. K., Will, R. E., and Porterfield, J. D. *Native Plants Journal* 12(3):241-248. 2011.

# Effects of seed source and pre-planting treatment on emergence of *Juniperus scopulorum* Sarg. in a Great Plains nursery

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## ABSTRACT

Reliable propagation of Rocky Mountain juniper (*Juniperus scopulorum* Sarg. [Cupressaceae]) for use as an evergreen shelterbelt species in the southern Great Plains is hindered by inconsistent seedling emergence and establishment. We evaluated a series of pre-planting treatments as well as 2 planting depths for both fall and spring planting dates using a single seed source. We then tested 6 seed sources using the 3 best treatments. The best treatment was 13 wk at 22 °C (72 °F) followed by 13 wk at 4 °C (39 °F; 23% emergence for fall and spring planting combined). Fall planting resulted in greater success for differing pre-planting treatments. Planting depth did not affect emergence. Only one of 6 seed sources produced seedlings in response to cold-only treatment while combining warm and cold treatments was generally successful for all seed sources.

Tauer PK, Will RE, Porterfield JD. 2011. Effects of seed source and pre-planting treatment on emergence of *Juniperus scopulorum* Sarg. in a Great Plains nursery. *Native Plants Journal* 12(3):241–248.

## KEY WORDS

Rocky Mountain juniper, planting depth, seed dormancy, season of planting, bare-root

## NOMENCLATURE

USDA NRCS (2010)