

Li, W., **M. B. McDonald**, M. A. Bennett, and F. Y. Kwong. 2005. Hydropriming of differing sized impatiens 'Expo Wine' seeds. *Seed Sci. & Technol.* 33:639-646.

Abstract

Priming effects may be different among impatiens seed lots with different seed sizes. To investigate this relationship, six seed size classes of 'Expo Wine' impatiens seeds were hydroprimed for different durations followed by slow dehydration using saturated salt solutions. Germination results showed that 24, 36 and 42h of hydropriming reduced speed of germination, while 4 and 8h of hydropriming promoted speed of germination and 1h hydropriming showed no significant difference compared to non-primed seeds. Statistical analysis indicated that seed size effects existed, with larger seeds germinating faster than smaller seeds following hydropriming. These results indicate that seed lots subjected to hydropriming must be sized to obtain a uniform priming response.