

عنوان مقاله:

The impact of seed priming on grain yield and yield components of borage

محل انتشار:

سومین کنفرانس بین المللی پژوهشهای کاربردی در علوم کشاورزی (سال: 1394)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

Seed priming is a technology that positively influence germination and seedling establishment in many crops and may improve field performance under adverse environmental conditions. Therefore, in this research the effects of seed priming methods (P1: unprimed, P2: hydro-priming, P3: priming with 1% KNO₃, and P4: priming with 1% KH₂PO₄ for 8 h at 15±1°C) on yield and yield components of borage were investigated. A field experiment based on randomized complete block design with three replications was conducted at the Research Farm of the Faculty of Agriculture, University of Tabriz, Iran. Results indicated that percentage of seedling emergence from primed seeds with water, KNO₃ and KH₂PO₄ was higher than that of control, leading to the production of more grains per plant and per unit area and 154.1, 114.8 and 127.8% improvement in grain yield, respectively. Therefore, seed priming techniques could be used to improve stand establishment and yield of borage in the field.

کلمات کلیدی:

Borage, Grain, Seed priming, Yield

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