

**Title**

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Difference in early vegetative growth and nutrient ion uptake among seed-propagated lines of a common reed, *Phragmites australis*

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**Abstract**

Morphological and physiological characters of a common reed (*Phragmites australis* (Cav.) Trin. ex Steud.), cultured in a greenhouse, were investigated using 12 lines corrected from Shiga Prefecture. There were 3 and 4 times differences in the emergence of shoot and root from a node, respectively. Days to emergence of shoot and root were also different among the lines used in this experiment. Further characterizations were carried out using 4 lines, which had been shown to be easy to culture and propagate and demonstrated the clear differences in shoot/root biomass and uptake ability of nutrients such as nitrate and phosphate.