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Effects of Pre-Sowing PEG and KH 2 PO 4 Treatments on Germination  
Emergence and Yield of Carrot

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**Abstract:** Studies were conducted at the fields and laboratories of Ege University, Faculty of Agriculture, Department of Horticulture during 1994-1995 to improve germination and emergence in carrot (*Daucus carota* L. cv. Nantes) by priming, a presowing seed treatment. Seeds were treated with PEG-6000 (273 g/l) and KH 2 PO 4 (70 g/l) at 15°C for 10 days. Seeds were dried and taken for germination tests at the laboratory and for emergence tests in the open field. Besides germination, seedling emergence and yield were also determined in open field. According to the results the percentage of germination increased to 81% by PEG and 79% by KH 2 PO 4 applications where as it remained as 75% in control. Seedling emergence rate was 59% in both treatments at twenty-fifth day after sowing while it was 50% in untreated seeds. This improved seedling emergence also enhanced overall yield per unit area (22-23 kg/6 m<sup>2</sup> in both treatments, 18 kg/6 m<sup>2</sup> in control) and provided homogenous seedling growth.

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