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Adjustment of plant spacing and fertilizers dose in relation to quality of onion (*Allium cepa* L.) seed

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ABSTRACT : A field experiment was carried out at Department of Vegetable Science, C.C.S. Haryana Agricultural University, Hisar (Haryana) during *Rabi* season of 2013-14 and 2014-15 to investigate the effect of fertilizers and plant spacing on quality of onion seed. The treatments comprising of three fertilizers levels (F_1 : 75% recommended dose of phosphorus and potash, F_2 : 100% recommended dose of phosphorus and potash and F_3 : 125% recommended dose of phosphorus and potash) and four plant spacing (S_1 : 45×30 cm, S_2 : 45×45 cm, S_3 : 60×30 cm and S_4 : 60×45 cm) were laid out in randomized block design (factorial). The results of the experiment showed that different fertilizers levels and plant spacing influenced the quality of onion seed significantly. The treatment combination 125% recommended dose of phosphorus and potash in association with 60x45 cm plant spacing was found best for test weight, seed germination percentage, seed vigour index I, seed vigour index II, incidence of disease and electrical conductivity of seed leachates during both the years.

Key Words : Fertilizers, spacing, seed quality and onion.