Abstract:

Seeds of *Allium cepa* 'Giugnese' seeds were stored for 6 years from 1996 to 2002 at +10/30, +5 and -20°C in air-tight 2x100µ PE-films packets. The initial seed moisture content was 8,13%. Germination was tested yearly at five different constant germination temperatures between 10 and 30°C (increment of 5°C). In the storage regime +10/30°C germination percentage decreased already during the first storage year at all tested germination temperatures. Germination percentage was unchanged in the storage regime +5°C for 3 years when tested between 15 and 25°C. Germination percentage was unchanged in storage regime -20°C for the total storage period of 6 years when tested between 10 and 25°C. The germination percentages obtained at germination temperatures 15 and 20° C were higher than those obtained by the improved seed viability equation. Field emergence was unchanged in variant +10/30 for 1 year, in variant +5 for 3 years and in variant -20 for the total storage period of 6 years.