

## EFFECT OF ACCELERATED AND NATURAL AGEING ON SEED STORAGE POTENTIAL OF WHEAT SEED (*TRITICUM AESTIVUM* L.)

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**Abstract:** Seed of six varieties of wheat (*Triticum aestivum*) viz. C-306, PBW-502, WH-542, WH-711, WH-283 and RAJ-3765 were subjected to natural vis-à-vis accelerated ageing conditions and evaluated for relative storage potential of the seeds of respective varieties and ageing conditions. Seeds of all the varieties found 18 months of storability except the variety C-306 in term of minimum seed certification standards (MSCS) for germination percentage. Whereas variety RAJ-3765 was adjudged to have poor storability as it showed 18 months of seed storage potential under ambient conditions. After two years of storage all the wheat varieties loss their germination below minimum seed certification standards (MSCS). Maximum germination percentage retained by variety PBW-502(79.00), considered to have good storability as compared to others whereas minimum germination percentage retained by variety C-306(71.33) found to have poor storability. In case of accelerated aged seed lot maximum germination percentage retained by variety PBW-502(55.00) showed good storability whereas RAJ-3765(44.00) retained minimum germination percentage which showed poor storability among all varieties followed by C-306(47.00). Thus in both conditions natural and accelerated aged seed PBW-502 was adjudged good and RAJ-3765 was as poor storage genotypes. Secondly accelerated aged seed is having poor storability as compare to natural aged seed.

**Keywords:** Accelerated ageing, Natural ageing, Wheat, Seed quality, Seed storability

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