

SEED QUALITY AND YIELD PERFORMANCE OF WHEAT FROM DIFFERENT SEED SOURCES AND UNDER DIFFERENT STORAGE CONDITIONS

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Extended Summary

Laboratory and field experiments were conducted at Sher-e-Bangla Agricultural University, Dhaka to study the influence of seed sources and storage condition on seed quality and performance of wheat. Three sources of wheat seed viz. i) Wheat Research Centre, Bangladesh Agricultural Research Institute (BARI seed), ii) Bangladesh Agricultural Development Corporation (BADC seed) and iii) Farmer's seed, and Six types of storage conditions viz. i) Below 10⁰ C (in refrigerator), ii) Below 20⁰C (in AC cool room), iii) poly bag, iv) Tin container, Earthen piture and 'dole' (made of bamboo) were used in this experiment. Currently harvested seeds were stored from July to November, 2011 and these stored seeds were used in the field trial in the month of November, 2011 to evaluate their performance. Result of the laboratory trial revealed that BARI seed were found superior in respect of seed moisture and germination percentage than others. Refrigerator (Below 10⁰ C) and AC cool room (below 20⁰C) were best for storing seeds with good quality. Seeds can be stored in poly bag and tin container with little deterioration of quality but other stored conditions were not found suitable for storing of wheat seed as the gave less than 50% germination percentage after storing 6 months. Field trail is going on. Only plant height and dry matter plant⁻¹ data were taken by this time. Plant height and dry matter plant⁻¹ data revealed that seed source had little or no effect on their characters. Seed stored in refrigerator or AC cool room showed significantly better plant height and dry matter plant⁻¹ than poly bag and tin pot container. Interaction of BARI seed and below 10⁰C stored condition was found highest in respect of plant height and dry matter plant⁻¹

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