INFLUENCE OF THERMAL ENVIRONMENT ON PHENOLOGY, GROWTH, YIELD AND DEVELOPMENT OF MUSTARD (BRASSICA JUNCEA L.) VARIETIES

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Received-13.08.2017, Revised-25.08.2017

Abstract: Among various important growth characters of these Mustard varieties, plant height was greatly influenced under different thermal environments. Maximum plant height was observed in variety Varuna E1 (29th November) and minimum height was recorded in E3 (19th December). First date of sowing had more duration from sowing to maturity as compared to delayed sowing. This shortening of duration was due to thermal stress at later sowing dates. From phenological development point of view, the thermal insensitivity of all the varieties was assessed based on the TSI and it was found that Vardan, Kranti and Varuna Mustard varieties were tolerant to thermal stress. Different Mustard varieties show non significant results under different thermal environments but the seed yield (kg/ha) showed significant results under different thermal regimes.

Keywords: Thermal environment, Phenology, Development, Brassica juncea

REFERENCES


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