



RESEARCH PAPER

Seed development and maturation studies in barnyard millet cv. MDU 1

S. Venkatesan*, K. Sujatha, R. Geetha and N. Senthil

Department of Seed Science and Technology, Agricultural College and Research Institute, Madurai (T.N.) India
(Email : svengat95@gmail.com)

Abstract : The present investigation was carried out during 2016-2017 to identify the seed development maturation studies in Barnyard millet cv. MDU 1. The results revealed that seeds attained physiological maturity on 50 days after anthesis as evidenced by the maximum panicle length (30.7 cm), fresh weight (31.2 g), dry weight (23.5g), fresh weight of the seeds (23.4g) and dry weight of the seeds (14.5g). The change of colour of panicle and seed from green to dark brown could be considered as a visible index of maturity. The seed quality parameters viz., germination (51 %), shoot length (9.59 cm), root length (18.5 cm) and dry matter (0.025 g/10 seedlings) and vigour index (1175) were also maximum at 50 days after anthesis.

Key Words : Barnyard millet, Seed development, Physiological maturity, Anthesis

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