STUDIES ON PHENOLOGY, SEED DEVELOPMENT AND MATURATION IN
LAMB’S QUARTERS (CHENOPODIUM ALBUM L) VAR. OOTY (CK) 1

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Abstract

The phenology study in Lamb’s quarters (Chenopodium album L.) revealed that the spike initiation started from 35 days after sowing (DAS) and completed at 40 DAS. The flowering period initiated at 43 DAS and reached 50 per cent at 54 DAS and completed at 65 DAS. Seed development and maturation results showed that the seed takes about 45 days to attain its physiological maturity from the anthesis. Eight different stages of seed development were observed based on the changes in seed colour. Therefore, seed was greyed brown (RHS N199A) in colour and possess 12.7 per cent moisture content at the time of seed maturation. Also the maximum seed fresh weight (2.20 mg seed⁻¹) and dry weight (1.55 mg seed⁻¹) were noticed at that time. In addition, the seed has dormancy at the time of physiological maturation and therefore, it needs dormancy breaking treatment for instant sowing.

Keywords: Chenopodium album, Chakkaravartikeerai, Phenology & Seed Development and Maturation

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