Performance Evaluation of Paddy Seeding Device for Mat Nursery

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ABSTRACT

A pre-germinated paddy seeding device for mat nursery useful in the mechanical rice transplanting was tested for its performance at College of Agricultural Engineering, Bapatla during the year 2010. Two verities of paddy NLR 145 and BPT 2207 were used in the study at three sprout average lengths obtained at three incubation periods (24, 36 and 48 h). For paddy variety NLR 145, two, three and four number of passes of paddy seeding device over soil filled plasic tray of size 280 X580 mm were enough at sprout lengths of 1.02, 2.84 and 5.19 mm respectively to get recommended seed density per mat (100 – 120 g/mat) and uniformity (50 – 75 seed/25 cm^2). Similarly for paddy variety BPT 2207, two, three and four number of passes of paddy seeding device over tray were enough at sprout lengths of 1.03, 4.19 and 6.28 mm respectively to get recommended seed density per mat and uniformity.

Key words : Paddy, Mat nursery, Seed density, Seed uniformity