

Study of paddy genotypes for physiological variation under upland cultivation

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A field trial conducted at MPKV, Rahuri Post Graduate Institute farm during *Kharif* under upland condition in Randomized Block Design with three replications and twelve treatments. Paddy genotypes namely PBNR 89 II-6, PBNR 89, II-53, PBNR 90 III-64, PBNR 90 III-4, PBNR 90 II-11, PBNR 90 III-10, PBNR 89 I-3, PBNR 93-9, PBNR 93-4 and varieties Sugandha. (check), Parag (check), Basumati-370 (check) were tested. Significant differences were observed among the genotypes for stem dry matter, leaf dry matter, total dry matter, absolute growth rate, relative growth rate, net assimilation rate, chlorophyll content, harvest index etc. None of genotypes was found to surplus the grain yield than genotypic check Parag and Basumati-370 under upland condition.

Key words : LAI, LAD, AGR, RGR, NAR, Harvest index, Chlorophyll content

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