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Estimation of g x e interactions in exotic germplasm of pearl millet (*Pennisetum glaucum* L.)

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ABSTRACT : Twenty seven accessions of pearl millet germplasm of African origin along with check HHB 67 were evaluated in eight environments for eight quantitative traits and data were subjected to regression analysis and also analysed to detect the presence of crossover and non-crossover interactions. Seven accessions namely, EC 539227, EC 539241, EC 468904, EC 539254, EC 539259, EC 468900, and EC468896 were identified to be promising based on regression analysis, whereas accessions EC 539299, EC 541536, EC 468904, EC 539227, EC 468898, EC 541540 and EC 539251 were identified as potential ones by using crossover and non-crossover interactions concepts against standard check HHB 67. Of these accessions EC 468904 was identified as high yielding accession having specific adaptability and responsiveness to higher nitrogen regimes both by regression analysis and crossover and non-crossover interactions concept.

KEY **W**ORDS : Pearl millet, Genotype x environment interaction, Crossover and non-crossover interaction, Regression analysis

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