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RESEARCH ARTICLE

Genetic diversity studies for seed yield in cowpea [*Vigna unguiculata* (L.) Walp.]

■ ANAMIKA NATH AND P.A. TAJANE

SUMMARY

The present investigation on genetic diversity studies for seed yield in cowpea [*Vigna unguiculata* (L.) Walp.] was conducted by using 44 genotypes of cowpea. There was substantial genetic diversity among the genotypes studied. 44 genotypes were grouped into 6 clusters to study the genetic divergence for seed yield per plant. There was no parallelism between genetic diversity and geographical distribution. For seed yield, the pair of genotypes *viz.*,Phule CP 05001 and UPC-5286 were most divergent from one another (D^2 = 1225.35). On the basis of inter-cluster distance, cluster means and *per se* performance observed in the present studies, following genotypes are suggested for hybridization to improve seed yield in cowpea. 1.UPC-5286, 2.Phule Pandhari, 3.NBPGR-05-66, 4. Pusa-do-fasali, 5.Shweta, 6.NBPGR-05-67, 7.CP-23-GPM, 8.NBPGR 05-71.

Key Words : Cowpea, Genetic, Diversity, D^2, Seed yield

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MEMBERS OF THE RESEARCH FORUM

Author to be contacted :
ANAMIKA NATH, Department of Plant Breeding and Genetics, Maharana Pratap University of Agriculture and Technology, UDAIPUR (RAJASTHAN) INDIA

Address of the Co-authors:
P.A. TAJANE, Department of Agricultural Botany, Mahatma Phule Krishi Vidyapeeth, Rahuri, AHMEDNAGAR (M.S.) INDIA