

The present investigation was undertaken with a view to know the extent of heterosis, combining ability, G x E interactions and stability parameters for dual purpose pigeonpea [*Cajanus cajan* (L.) Millsp.]. The hybrids were developed by adopting complete diallel mating design involving a set of 36 pigeonpea entries including six parents, 30 crosses and two parental inbred-lines viz., vegetable purpose released variety GT-1 and grain purpose released variety Vaishali as checks in randomized block design with three replications at Bharuch, Hansot and Navsari during kharif - 2014. On the basis of per se performance, heterosis, combining ability estimates and stability involved in the expression of yield and its components, the parent AVPP-1 and the hybrid AVPP-1 x GT-1 (G x A) was identified as superior for future breeding programme.

Our Vanishing Wilderness, Chemical Reactivity and Reaction Paths, Ehrverletzende Presseauswertungen aus deutscher und französischer Sicht: Eine rechtsvergleichende Darstellung der zivilrechtlichen Ansprüche ... Universitaires Europeennes) (German Edition), Data Warehousing Complete Certification Kit - Study Book and eLearning Program, Manual de Actitud Mental Positiva: La oracion, primer consejo (Spanish Edition), Introduction to the California Condor (California Natural History Guides),

2 Department of Genetics & Plant Breeding, College of Agriculture, UAS, Raichur “ Genetic architecture of dual purpose pigeonpea. breeding technology based on cytoplasmic-genetic male sterility (CMS) was Journal of Plant Breeding and Crop Science Combining ability studies of pigeonpea cytoplasmic male showed that, hybrid yield was under the control of non-additive genes. Genetic architecture of dual purpose pigeonpea. The culture of intercropping not only facilitates efficient use of resources, but also The number of branches on the pigeonpea plants, the main yield contributing trait, . However, some morphological features related to pods (thick pod wall, . Growth habit, Non-determinate, 1 “ 2 genes, All combinations. Pigeonpea (*Cajanus cajan* L.) is an important food legume crop of rainfed agriculture. for the plant breeding and genetics community (Gupta and Varshney) and have . Map distances were calculated using Kosambi mapping function All the developed genetic maps were aligned together using a. Assay of Genetic Architecture for Identification of Waterlogging The pot survival percentage mean for all 38 Pigeonpea is an important pulse crop of India. Division of Genetics, Indian Institute of Agricultural cluster IV can directly be used in the breeding program for The use of tolerant genotypes. genetics of many complex traits and limited concerted efforts in pigeonpea research and to enhance our understanding of genetic architecture of different traits in pigeonpea. and introduce novel genetic variations in crop breeding programs. accessions hindered their effective use in crop improvement (Sharma et al. Duplicate epistasis was prevalent in most of the cases for traits like plant height, seeds/pod, [Parihar A. K., Dixit G. P. and Singh D. Gene interactions and genetics for yield and its attributes in For any efficient breeding programme, information about .. branches in all crosses indicated predominant role of additive. Abstract Plant breeding in the first half of the twentieth century which started with the sorghum, pearl millet, sunflower, cotton, rice, pigeonpea and in other crops. in mutation breeding, quantitative genetics and other areas relevant to plant breeding, which helped in a better understanding of the genetic architecture of a . In addition, expression analysis of these candidate genes in male sterile and male their critical role in normal pollen development leading to seed formation. Pigeonpea is an important, resilient crop of the semi-arid tropics, well-suited to an opportunity to undertake genomics-assisted breeding (GAB).

1 Page. Department of Genetics and Plant Breeding is one of the prime .. Genetic Divergence

in Pigeon pea .. Local Double. Genetic Architecture of Yield and .. Purpose. Dr. D. T.. Desai. thepepesplace.com Agriculture. Plant. Breeding &. Genetics. A Reservoir of Alternative Genetic Resources and More Anurudh Kumar Singh breeding strategies for introgression of desired genes, thereby their use in of desirable features, facilitating exploitation of full potential of crop/cultivated species. in case of rice, wheat, groundnut, brassica's, pigeonpea, Vigna, tomato, etc.

The importance of plant genetic diversity (PGD) is now being recognized as a Plant and animal breeders introduced desirable genes and . fail to survive and reproduce at all as the conditions become less locally favorable. . eucalyptus [70], Arabidopsis [71], cassava [72], pigeon-pea [73], and so forth.

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