

Introgression of dwarfing gene: Key to sustainable yield jump in Maize

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Abstract

A sustainable increase in yield of Maize can be obtained by increasing plant population per hectare. Wheat and Rice have witnessed sustainable yield increase in past. The increase in yield is attributed to optimum use of fertilizer, insecticide, introgression of Photo and thermo insensitivity and dwarfing gene. Maize exhibits complex issue as more than 40 monogenic dwarfing mutants have been reported, however majority of these lead to reduction in yield to a great extent. We used population improvement breeding technique for the introgression of dwarfing gene which leads to reduced internode, plant height, ear height, number of leaves and leaf angle without yield sacrifice. This also contributed to improve biomass index (Vegetative: Reproductive Biomass ratio) of the plant.

Biography

Kamendra N Mihra With decades of experience is the founder and Chairman of ProFarm Seed is a passionate advocate of farmers - creating solutions for agriculture all over the world. He was born on November 10, 1948, and attended Bihar Agricultural College, SABOUR and graduated with a B. S. degree in 1969 and graduated with a M.S. degree in Plant Breeding in 1971 from PANTNAGAR. Other educational endeavors include several executive management courses at the Wharton School, University of Pennsylvania and training in Gene Transformation at the Cold Spring Harbor, New York.

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