Salt Tolerance Bread Wheats: Current Germplasm Status. (C01-mujeebkazi105500-Poster)

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Abstract:

Wheat production in ME-1 (Mega-environment 1) can be influenced by salinity build-up in the soil. Several global breeding programs have hence identified salt-tolerant germplasms, tolerant land races like Kharchia 65 and Shorawaki, and released cultivars Lu26S, Pasban 90, KRL 1-4, and KRL 19. We have accumulated all these germplasms to form a tester set for multilocational evaluation. These germplasms are freely shared. Our specific efforts have been at first to select the better performers under a controlled environment in vitro germination, and a K:Na discrimination hydroponic test. The selected germplasms are then field tested under electrical conductivity (EC) levels from 8 to 20 dSm2 using our sea-water dilution evaluation protocol. Reported here are the observations of the conventional tester set and those of novel germplasms developed from primary and tertiary Triticeae gene pool species with a greater emphasis on their stringent K:Na performance.

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Presentation Information:

MEXICO

Presentation Date: Wednesday, November 13, 2002 Presentation Time: 4:00-6:00 pm Poster Board Number: 639

Keywords:

Salinity tolerance, Bread wheat