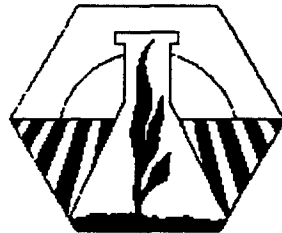


2001
Annual Meetings
ABSTRACTS



American Society of Agronomy
Crop Science Society of America
Soil Science Society of America

October 21-25, 2001
Charlotte, North Carolina

2001 ANNUAL MEETINGS ABSTRACTS

AMERICAN SOCIETY OF AGRONOMY

93rd Annual Meeting

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ASA-CSSA-SSSA Annual Meetings - October 21 - 25, 2001 - Charlotte, NC

Title

Durum Wheat/A and B Genome amphiploids (2n=6x=42).

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Authors

R.	DELGADO*	
S.	CANO	
A.	CORTES	
A.	MUJEEB-KAZI	CIMMYT

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abstract

Considerable emphasis over the last decade has been given to bread wheat improvement by incorporating the D genome diversity of several hundred *Aegilops tauschii* accessions. For durum wheats a similar strategy is feasible and employs the use of the various A and B genome accessions. Our approach has been to cross elite durum cultivars with the A and B diploid accessions, treat the F1 hybrids to induce doubling/fertility, increase the amphiploid seed, screen for abiotic/biotic stresses and distribute the germplasm. Currently available are 194 A genome amphiploids (2n=6x=42, AAAABB) and 54 of the B genome (2n=6x=42, ABBBBB). Presented here is information on amphiploid production, phenology and cytogenetics of selected amphiploids from each genome with some stress evaluation data that we anticipate may assist durum breeding programs.

For more information, please contact:

ABDUL MUJEEB-KAZI 650-833-6655 m.kazi@cgiar.org