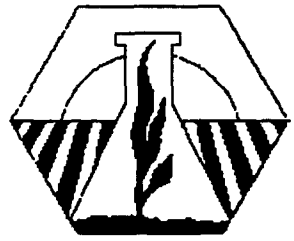
2001
Annual Meetings
ABSTRACTS



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

AGRONOMIC DIVISIONS

President and Program Chair: Darrell W. Nelson, Univ. of Nebraska

President-Elect: Charles W. Stuber, North Carolina State Univ.

Chairs (Program Chairs) and Chairs-Elect of Divisions

A-1- Resident Education
Chair: Jeffory A. Hattey, Oklahoma State Univ.
Chair-Elect: Freddie A. Martin, Louisiana State Univ.

Subdiv. A-la - Student Activities
Chair: Sherry S. Fulk-Brinkman, Purdue Univ.
Chair-Elect: Mary H. Wiedenhoeft, Iowa State Univ.

A-2 - Military Land Use and Management
Chair: Dana L. Quinney, State of Idaho Military Division, Boise, ID
Chair-Elect: Robert M. Lacey, U.S. Army, Champaign, IL

A-3 - Agroclimatology and Agronomic Modeling
Chair: Jay M. Ham, Kansas State Univ.
Chair-Elect: Keith L. Bristow, CSIRO, Australia

A-4 - Extension Education
Chair: Steven C. Hodges, North Carolina State Univ.
Chair-Elect: Eugene G. Krenzer, Jr., Oklahoma State Univ.

A-5 - Environmental Quality
Chair: Deanna L. Osmond, North Carolina State Univ.
Chair-Elect: Lawrence J. Sikora, USDA-ARS, Beltsville, MD

A-6 - International Agronomy
Chair: Erick C. Fernandes, Cornell Univ.
Chair-Elect: John Ryan, ICARDA, Syria

A-7 - Agricultural Research Station Management

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

Title

Durum Wheat/Tertiary Gene Pool Intergeneric Hybrids.

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CYTOGENETICS	

abstract

Towards diversifying the germplasm base available for durum wheat we report here on the production and morpho-cytogenetic categorization of several F1 hybrid combinations between durum wheat cultivars and some tertiary gene pool species. The species combined are Elymus fibrosus, E. virginicus, Elytrigia pungens, Psathyrostachys juncea, P. spicatum, Thinopyrum elongatum, Th. junceiforme, Th. junceum, Th. littorale-campestre, Th. podperae, Th. scirpeum, Th. scythicum, Th. intermedium with its four sub-species; acutum, pulcherrimum, trichophorum, and varnense. All F1 hybrids are cytologically stable, are perennials and exhibit a co-dominant phenotype. Selected combinations involving Th. junceiforme and Th. elongatum have been advanced by backcrossing for addressing the scab and salinity stress constraints. Some amphiploids have also been produced and validated cytologically. The utilization potential and current status of the germplasm developed will be presented.

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