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Spring Triticale

Names; Parentage; Pedigrees; Origins

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Names; Parentage; Pedigrees; Origins

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Introduction

One of CIMMYT's primary functions is to produce germplasm for use by national crop improvement programs and other collaborators. In the development of triticale germplasm, emphasis is given to producing advanced materials that can be readily integrated into these collaborating breeding programs Early generation segregating materials are also made available to cooperators.

Each year, CIMMYT makes thousands of triticale crosses and generates hundreds of advanced lines. These materials are distributed annually to cooperators by way of our international nursery system. National programs and other cooperators are free to use the germplasm in CIMMYT nurseries in whatever ways best suit their needs. Options range from crossing with local cultivars to placing entries directly into multiplication for eventual release as cultivars. The reader should note that CIMMYT does not release nor name varieties; that is the right and responsibility of cooperating national programs, and each has its own system for naming released cultivars. CIMMYT does assign names to advanced triticale breeding lines (using the names of animals). This is done to differentiate promising lines, and to simplify our pedigree recording system and the making of crosses

This bulletin contains a compilation of all triticale cultivars and advanced lines produced by CIMMYT and by the Mexican National Institute of Agricultural Research (INIA); it also contains the names and pedigrées of cultivars that have been released by cooperating programs. Our purpose in publishing this bulletin is to facilitate the exchange of more exact information among triticale researchers working with these materials, and to assist them in their note-taking and record-keeping activities.

With the publication of this bulletin, CIMMYT has opted for a change in its system of indicating the order of crosses in each pedigree so as to conform with the system now used by most other crop breeding organizations. Not only will this make it easier to trade data, but the system itself is easier to use The table below contains a comparison of the old and new systems.

Order of Crosses	Symbol in Old System	Symbol in New System
1	—	/
2	x	//
3	/	/3/
4	( )	/4/
5	[ ]	/5/
6	Key Bracket	/6/
n	Multiple Key Brackets	/n/
Backcross	Superscript	*

Thus, if parent A is crossed with parent B and the F_1 hybrid is crossed with parent C, its pedigree would be designated as A/B//C. Subsequent crosses with parental material D,E,F and G would be indicated as.

A/B//C/3/D/4/E/5/F/6/G

The female parent is designated by listing it first (to the left side) followed by the pollen parent (placed to the right side of the cross). Thus, A is the female and B is the pollen parent in the first cross The line A/B is the female and C is the pollen parent in cross two, etc.

Backcrosses are designated with an asterisk (*) and a number indicating the dosage of the recurrent parent. The asterisk and the number are placed next to the

crossing symbol that divides the recurrent and donor parents. The following are examples involving one backcross (two doses):

A is the recurrent parent: A*2/B
B is the recurrent parent: A/2*B
A/B is the recurrent parent· A/B*2//C/D
C/D is the recurrent parent A/B//2*C/D

Each pedigree name begins with an alphabetic designation of the cross origin, followed by a cross number. Following the cross number is either a letter or number-letter combination. For top and double crosses, a letter is assigned to each plant selected in the F_1 generation. In number-letter combinations, the number identifies the individual plant and the letter indicates the location of selection The zero-letter combinations (0Y, 0M, etc) are reserved for populations carried as a bulk in that generation. The 500 series-letter combinations (500Y, 501M, etc.) indicate the selection of a single plant from a segregating population for inclusion in the crossing block. Examples of each are presented below:

Type of Cross	**Cross Number**	**Plant Selection and Location (by generation)**					
		F_1	**F_2**	**F_3**	**F_4**	**F_5**	**F_6**
Simple (variety x variety	CTM15611	—	2Y	1M	1Y	0M	
Top (F_1 x variety)	CTM19614	F	15M	500Y	0M	87B	0Y

Because of the large number of crosses made annually by CIMMYT and cooperating institutions, this bulletin requires updating and revision periodically to accomodate additional entries. We welcome contributed information and suggestions designed to make this compilation more comprehensive and useful to triticale researchers the world over.

Table 1. Triticale cultivars and advanced lines produced by CIMMYT and/or INIA, as well as cultivars released by cooperators.

Name	Abbrev.	XT	Pedigree	Cross No & Selection	Year	Country
ADDAX	ADX	C	OCTO OC/AGROT	X-7224-10M-1Y-100M-0Y	1978	MEXICO
ALAMOS 83	ALM	S	CHIVA"S"	X-24551-8Y-3M-1Y-0M	1983	MEXICO
ANGORA	AGR	S	M2A	X-2802-9M-2M-3M-0M	1978	MEXICO
ANTEATER"S"	ATE	C	CIN/PI251923//PATO/3/BGL"S"	X-16350	1982	MEXICO
ARABIAN	ABN	S	M2A	X-2802-38M-5M-6M-6M-0Y	1974 1981	MEXICO PORTUGAL
ARDILLA	ARD	C	HARE 262//MERINO"S"/JLO"S"	CTM-13973-1Y-500M	1985	MEXICO
ARIES	ARS	S	TCL DUR "GHIZA"/TCL DUR "CRLT"/3/ TCL PERS./TCL DUR//TCL DIC/TCL PERS-outcrossed to Breadwheat	X-308-6Y-2M-100Y-0B	1970	MEXICO
ARMADILLO	ARM	S	TCL DUR "GHIZA"/TCL DUR "CRLT"/3/ TCL PERS./TCL DUR//TCL DIC/TCL PERS-outcrossed to Breadwheat	X-308	1968 1979	MEXICO PORTUGAL
ARRNEB	ARR	C	OCTO/DRIRA/M1A/3/CIN/CNO//BGL"S"/7/ BB/4/SON64//NAD/3/JAR"S"/5/WRC 31/6/ DRIRA/M1A	B-7974-192-1Y-2Y-2M-0Y	1985	MEXICO
ASAD	ASAD	C	DURUM WHEAT/BALBO//DF"S"	X-49862-3Y-2Y-5M-1Y-1M-0Y	1985	MEXICO
BACUM	BCM	S	M2A	X-2832-24M-3M-7M-4M-0Y	1974 1981	MEXICO PORTUGAL
BADGER	BGR	S	selection from a bulk outcrossing population	E2-68B-0Y	1969	MEXICO
BAER"S"	BAER	C	K6656/TOB66//3221.71/3/UC 90/4/ M2A*2/CIN//BGL"S"	B-5586	1984	MEXICO

Table 1. (continued)

Name	Abbrev.	XT	Pedigree	Cross No. & Selection	Year	Country
BAT	BAT	C	BCM"S"/PM 28 BULK/3/BGL"S"/M2A/ /RM"S"/PTR"S"	CT-2211-500M-501M-503Y-5B-0Y	1985	MEXICO
BLAGLE	BGL	C	GM"S"/TCL BULK	X-1530-A-12M-5M-1M-0Y	1974 1981 1982	MEXICO PORTUGAL FLORIDA, USA
BEAGULLITA	BTA	C	BGL"S"/3/DGL//ITA/LEO	X-22427-101Y-2M-2Y-0M	1978	MEXICO
BEAVER	BVR	S	selection from a bulk outcrossing population	E1-68B-0Y	1969	MEXICO
BGC	BGC	S	BADGER/CALIDAD	X-2350	1969	MEXICO
BISON	BSN	S	M1A	X-2148-5M-2M-3Y-2M-0Y	1978	MEXICO
BOA"S"	BOA"S"	S	BVR"S"/ABN"S"	X-24560-9Y-3M-1Y-0M	1980	MEXICO
BOAR	BOAR	S	CMH73 802//FTA/CJ 71/3/CMH77 1135 /4/CMH75.1070	CMH82 902-1Y-2B-2Y-0B	1985	MEXICO
BOK"S"	BOK"S"	C	BGL"S"//M2A/CIN	X-15673-A-1Y-2Y-8M-0Y	1982	MEXICO
BONGO	BNG	S	KLA/M2A	X-8416-A-1Y-1M-2Y-0Y	1978	MEXICO
BONITO	BTO	S	IA/KLA//CAL	X-14920-8Y-1Y-0Y	1978	MEXICO
BORBA-1	*BORBA-1*	*C*	*BOK*	X-15673-A-1Y-2Y-1M-0Y	1984	PORTUGAL
BR-1	BR-1	S	= PANDA"S" = PFT 766	X-8386-D-2Y-0M-101Y-101B-107Y-0Y	1984	BRAZIL
BRONCO 90	BCO	?	TCL DUR "SP PET"/TCL "GHIZA"/ /TCL DUR	X-224-15Y-2M-1Y-1M-0Y	1969	MEXICO

Table 1. (continued)

Name	Abbrev.	XT	Pedigree	Cross No. & Selection	Year	Country
BRUIN 46	BRN	?	TCL PERS.//TCL DICDS/TCL DUR "CRLT"/3/MTE 20/4/T PERS.	X-653-17M-8Y-2M-0Y	1969	MEXICO
BUEY	BE	C	TOD/8156(R)//PARANA/D67 3 outcrossed with Triticale	X-10390-A-1Y-1M-0Y	1971	MEXICO
BUNNY	BN	?	LS3 1/PI62//INIA/3/CC/INIA/4/ SNOOPY/5/CIN	X-14008-A-100Y	1971	MEXICO
BURA	BURA	S	M2A/IRA	X-8417-E-1Y-7M-3Y-0Y	1976	MEXICO
BUSH	BUSH	S	INIA/RYE"2//ARM"S"	X-2142-4N-5M-0N	1971	MEXICO
CABORCA 79	BURA	S	M2A/IRA	X-8417-E-1Y-7M-3Y-0Y	1979	MEXICO
CALBUCO-INIA	?	?	DRIRA//INIA/ARM/3/M2A	TT 210-1t-t-9t	1984	CHILE
CAMEL	CML	S	IA	X-1648-2N-1M-0Y	1969	MEXICO
CANANEA 79	CAN	S	M2A = MAPACHE	X-2802-F-12M-1N-1M-0Y	1979	MEXICO
CARIBOU	CRB	S	M2A//SD 648 5/8156	X-10473-C-1Y-1M	1978	MEXICO
CARMAN	CARMAN	C	BGL"S"	X-1530-A-12M-5N-1M-0Y	1980	WINNIPEG
CASTOR"S"	CASTOR"S"	?	OCTO BULK/BUSH	X-7233-17N-3Y-2N-0Y	1981	MEXICO
CEP-15 BATOVI	CEP-15	S	= PANDA"S" = TCEP 77138	X-8386-D-2Y-0M-110Y-103B-109Y-1Y-1M-100Y-0Y	1984	BRAZIL
CHEETAH	CHT	C	BGL"S"/3/ARS/MEXIPAA MUT.//BGL"S"	X-22473-102Y-100Y-6M-0Y	1978	MEXICO
CHIVA"S"	CHV"S"	S	ABN"R"/M1A	X-24551-8Y-3M-1Y-0M	1980	MEXICO
CHORIZO"S"	CHORIZO	S	BOR/TOR /4/PATO/7C/3/CC/8156//CNO"S" /5/CENT 2788/6/ FS 477	X-32450-A-4Y-2M-3Y-1M-0Y	1982	MEXICO

Table 1. (continued)

Name	Abbrev.	KT	Pedigree	Cross No. & Selection	Year	Country
CHUU"S"	CHUU"S"	S	BGC/TI71	X-14536-18Y-1Y-1Y-1B-1Y-1B-0Y	1980	MEXICO
CIERVO	CV	C	MAGHREBI"S"/BR"S"//NO/3/CENTENO ALTO	X-15041	1978	MEXICO
CINNAMON	CIN	S	M2A	X-2802-68M-5M-0M	1970	MEXICO
CINDEM	CINDEM	?	FW121/PROLIFIC	?	1973	MEXICO
CIVET"S"	CIVET"S"	C	MUS"S"//DRIRA/KGR	B-2658	1982	MEXICO
COORONG	CRG	S	IA	X-1648-5M-2M-0Y-2B-0Y	1980	S-AUSTRALIA
CURRENCY	CNY	C	M1A/BGL"S"	X-15552-33M-2Y-2Y-1M-0Y	1983	S-AUSTRALIA
CUYO	CUYO	?	KISS/CIN"R"	X-15691-106Y-1M-0Y	1979	MEXICO
DACHSHOND	DACH	S	INIA/RYE"2//ARM"S"	X-2142-1M-1M-0M	1970	MEXICO
DAKOLD	DAKOLD	C	TRITICALE MISSLABLED UNDER THE RYE NAME DAKOLD	?	1982	?
DELFIN	DF	C	M2A/BGL"S"	X-15490	1978	MEXICO
DINGO"S"	DGO"S"	S	BCM"S"//M2A/IRA/3/FS1897//IRA/CAL	X-41047-A-1Y-2M-1Y-2Y-2M-1Y-1B	1983	MEXICO
DRIRA	DRIRA	C	DR 44/3/INIA/RYE//ARM"S"	X-7110	1974	MEXICO
DUA	DUA	S	M2A	X-2802	1980	AUSTRALIA NSW
ECHIDNA"S"	EDA"S"	S	FTR"S"/M1A	X-34824-501M-500Y-501B-503Y-501Y-0M	1983	MEXICO
ELAND	ELD	S	M2A//ELA /DRH"S"	X-10493-A-1M-1Y-0Y	1978	MEXICO
ELK	ELK	C	M1A/DRIRA	B-507	1982	MEXICO

Table 1. (continued)

Name	Abbrev.	KT	Pedigree	Cross No. & Selection	Year	Country
ERONGA 83	ERONGA	C	JLO 159	X-21295	1983	MEXICO
ESEL"S"	ESEL"S"	S	PND"S"/MPE"S"//GPR"S"/YAK"S"	X-50408-B-5Y-2Y-1M-1Y-0	1984	MEXICO
FARO"S"	FARO"S"	C	BGL"S"/COQ//IRA/CML	B-2264	1983	MEXICO
FAWN	FAWN	S	CHAPALA/SPY//M2A	X-22652-100Y-101Y-0M	1978	MEXICO
FERRET	FRT	S	BGC/IA//BB /3/M2A/CIN	X-16375-102Y-0Y-100M-0Y	1978	MEXICO
FLORIDA 201	?	?	BGL/M2A	X-15671-FP7	1985	FLORIDA,USA
FOX	FOX	S	M2A/CIN	X-10870	1978	MEXICO
GAZELLE	GZL	S	CINUEM/CIN"S"	X-7267-27M-2Y-3M-0Y	1978	MEXICO
GIRAF"S"	GRF"S"	C	ABN/CHA42 outcrossed with Triticale	X-32636-2Y-5B-0Y	1979	MEXICO
GNU"S"	GNU"S"	C	OCTO NV//DRIRA/BGL"S"/3/BCH"S"/ /SPY RYL	B-6912	1984	MEXICO
GOPHER	GPR	S	JABALI/M2A	X-16155-100Y-2M-2Y-0M	1978	MEXICO
GOQUI	GQ	?	selection from genetic stock for long awnless spike	?	?	MEXICO
GRILLO	GO	C	GHIZA/CRLT//PER/DUR/3/PER//STW/PROL	X-313	1970	MEXICO
GRIZZLY"S"	GRIZZLY"S"	S	SETTER"S"/PANDA"S"	X-34530-600M-1Y-1M-1Y-0Y	1980	MEXICO
HARE"S"	HARE"S"	C	CIN/CNO//BGL/3/MERINO"S"	B-2700	1982	MEXICO
HIPPO"S"	HIPPO"S"	S	PMD"S"/SPD"S"/4/TGE"S"/3/PG"S"/CENT. BULK//ABN"S"	X-62468	1985	MEXICO
IAPAR 13 ARAUCARIA	IAPAR 13	S	*TPOL 8432 w PANDA"S"/RM	X-36517-613-M-0Y	1984	BRAZIL

Table 1. (continued)

Name	Abbrev.	KY	Pedigree	Cross No. & Selection	Year	Country
IMPALA	IMP	S	BOC/BULK E2	X-11066-E-9M-2Y-0Y	1978	MEXICO
JABALI	JAB	S	M2A*2	X-10667	?	MEXICO
JUAN	JUAN	C	JLO 168	X-21295	1984	CAL,USA
JUANILLO	JLO	C	DRIRA//KISS/ARM"S"	X-21295	1978	MEXICO
JUPPA"S"	JUPPA"S"	S	CHAPALA/SPY//YL 76	X-26579-1KE-0KE-1Y-2D-0Y	1980	MEXICO
KANGAROO	KGR	C	TCL DUR "GHIZA"/TCL DUR "CRLT"//TCL PERS/TCL DUR	X-3-1-F4UM-2M-2Y-3C-1Y	1969	MEXICO
KARL	KARL	S	M2A =ABN"S"	X-2802-38N-5M-6N-6M-1Y-3M-0Y	?	N DAKOTA,USA
KATZE"S"	KATZE"S"	S	DACK/WLOSZANOWSKIE//M2A*2	X-53260	1983	MEXICO
KOALA	KLA	S	SON 64/P4160//T POL MIKA/3/SON 64 /4/RYE MERCED/5/TCL DUR "CRLT"/TCL DUR GHIZA//ARM"S"	X-2091-102Y-0N-1M-0M	1969	MEXICO
KRAMER	KRAMER	S	M2A = MPE	X-2802-F-12N-1M-1N-1M-0Y	?	N DAKOTA,USA
LAMM"S"	LAMM"S"	S	LMG"S"/SPD"S"/4/BGL"S"/MUS"S"/ /FS477/3/BTA"S"	X-63773-D-1YP-1MP-0Y	1983	MEXICO
LECHON"S"	LECHON"S"	S	LNC"S"/ABN"S"	X-27605-11M-1Y-1M-1Y-3M-0Y	1981	MEXICO
LEMMING"S"	LMG"S"	S	STR"S"/FS100/3/M2A/CIN//CHL"S"	X-33208-I-100Y-100M-102Y-0N	1979	MEXICO
LEO	LEO	S	SON 64/P4160//T. POL MIKA/3/SON 64/4/RYE MERCED/5/TCL DUR "CRLT"/TCL DUR GHIZA//ARM"S"	X-2091-102Y-0N-1M-2N-1M-0Y	1969	MEXICO
LIEBRE"S"	LIEBRE"S"	S	NV"S"/LNC"S"	X-31100-5Y-1M-2Y-0M	1980	MEXICO

Table 1. (continued)

Name	Abbrev.	XT	Pedigree	Cross No. & Selection	Year	Country
LINCL	LNC	S	IA	X-1648-8N-3M-0Y	1975	MEXICO
LLAMA	LMA	S	M2A	X-2802-38N-3M-3N-0M	1978	MEXICO
LOBO	LOBO	S	M2A	X-2832-29N-6M-3N-0M	1975	MEXICO
LONQUIMAY-INIA	?	S	M2A*2//TJ/IRA	X-39348-1Y-2t-1t	1984	CHILE
LYNX	LYNX	C	M2A/ARM"S"//BGL"S"	X-15733-15Y-3M-2Y-1M-0Y	1978	MEXICO
MANA	MANA	?	?	?	1982	ECUADOR
MANIGERO	MAN	S	M2A	X-2802	1979	SPAIN
MAPACHE	MPE	S	M2A	X-2802-F-12M-1N-1M-0Y	1975 1981	MEXICO PORTUGAL
MASTIFF	MSF	S	M2A*2	X-8504-C-2Y-2M-100M-0Y	1978	MEXICO
MERINO"S"	MERINO"S"	C	M2A/TCL WHEATY//INIA/3/BGL"S"	B-199	1960	MEXICO
MEXITOL I	MEXITOL I	?	selection from an F2 population of winter Triticale sent to Bulgaria	?	1978	BULGARIA
MISI	MS	S	M2A/CIN	X-8255-A-101Y-0M-100Y	1979	MEXICO
MIZAR	MZR	S	M2A	X-2802	1979	ITALY
MONO"S"	MONO"S"	S	M2A*2/STR"S"//IA/ABN	X-38248-D-6M-1Y-1M-1M-0Y	1982	MEXICO
MONSANTO	MONSANTO	S	M2A	X-2802-70N-3M-1N-2M-0Y	1983	PORTUGAL
MORRISON	MORRISON	S	TJ/IRA	X-13896-D-100Y-102B-100Y-100-17M-0Y	1985	ALABAMA,USA
MOUSE"S"	MSE"S"	S	CHL"S"/KAL//KAL	X-32709-3Y-4B-0Y	1979	MEXICO
MULA"S"	MULA"S"	C	M2A/BGL"S"	X-18330-3M-2Y-2M-1Y-2M-0Y	1981	MEXICO
MUSKOX"S"	MUS"S"	C	IRA/BGL"S"	X-15570-1Y-1B-100B-0Y	1980	MEXICO

Table 1. (continued)

Name	Abbrev.	KT	Pedigree	Cross No. & Selection	Year	Country
MUSTANG"S"	MST"S"	S	ABN"S"//M2A /IRA/3/PND"S" /CASTOR /4/416/SPY//TED"S"	X-63377-E-2Y-2M-0Y	1984	MEXICO
NAVOJOA	NV	S	M2A	X-2802-38N-3M-6N-6M-0Y	1974	MEXICO
NIAB-T183	NIAB-T183	S	NIAB 77/NIAB 103/M2A	?	1982	PAKISTAN
NINGADHU	NGD	C	DRIRA SEL	X-7110	1980	AUSTRALIA
NUTRIA	NUTRIA	C	MERINO"S" /JLO	B-2709	1982	MEXICO
OAC DECADE	?	?	M2A//27-4/320	?	?	ALB, CANADA
OAC TRIWELL	?	C	BOL"S"	X-1530	1980	GUELPH, CANADA
OCELOT	OLT	S	M2A/IA	X-12677-56Y-1Y-3M-0Y	1978	MEXICO
OCEPAR-1	OCEPAR-1	C	= DELFIN"S"	X-15490	1984	BRAZIL
OCEPAR-2	OCEPAR-2	C	= ITOC 4432 = TJ/BGL"S"	X-16134-35Y-1Y-1M-1Y-1B-0Y	1984	BRAZYL
OTTER"S"	OTTER"S"	S	BTA"S"//PND"S"/YE 75/5/L3/ARM"S"/ /M2A/3/ABX"S"/4/NV"S"/BOL"S"	CT-5229-A-1M-2Y-0M	1984	MEXICO
PANCHE	PANCHE	C	MUS"S" /JLO"S"	B-2671	1982	MEXICO
PANDA	PND	S	M2A/CML	X-6386-D-2Y-0M	1979	MEXICO
PANTHER	PTR	S	TJ/IRA	X-13695-B-100Y-101B-103Y 0Y	1978	MEXICO
PIKA"S"	PIKA"S"	S	PTR"S"//CIN /FS 658	X-39597-4Y-2M-1Y-2Y-0M	1982	MEXICO
PLATYPUSS"S"	PLYS"S"	C	BGL DERIV./ANTEATER"S"	B-2824	1983	MEXICO
POLAR"S"	POL"S"	S	IRA/BGL"S"//M2A*2/CIN	X-22591	1979	MEXICO
PONY"S"	PONY"S"	S	M2A/BULK E2//CML"S"	X-24209-3Y-1M-5Y-1M-2Y-0M	1981	MEXICO

Table 1. (continued)

Name	Abbrev.	XT	Pedigree	Cross No. & Selection	Year	Country
PUMA"S"	PUMA"S"	S	IA/CIN//M1A	X-27554-A-1M-6Y-3M-1Y-0M	1980	MEXICO
PUPPY	PUPPY	S	M2A/IA	X-10874	?	MEXICO
RAHUM	RM	S	M1A	X-2148-1M-1M-0Y	1974	MEXICO
RAM	RAM	C	IA/IRA//BUITRE	X-12257-2M-0M	1974	MEXICO
RAT"S"	RAT"S"	S	GOPHER"S"//IA/BUSH	X-31976-A-1Y-500M-501Y-500B-0Y	1981	MEXICO
RATEL"S"	RATEL"S"	S	RM"S"//BGL"S" /M2A/3/M2A*2/4/ /LIEBRE"S"	X-36302-B-1M-1Y-2M-0Y	1982	MEXICO
REH"S"	REH"S"	S	SRL"S"//M2A/CAL/5/BUEY/BGL"S"/ /MSF"S"/3/IA/IRA/4/ADX"S	X-54032-B	1983	MEXICO
RHINO"S"	RHINO"S"	C	GRIZZLY"S"//AI FONG #3/DOVE	CIT-1367	1985	MEXICO
SALVO	SALVO	?	M2A-274/320*7680	?	?	POLAND
SAMSON	SAM 145	C	RAM	X-12257-2M-0M	1984	AUSTRALIA
SATU	SATU	S	M2A	X-2802	1979	AUSTRALIA NSW
SEAL"S"	SEAL"S"	S	CMH73A 785/SX//CMH77A 1165	CMH80 1157	1985	MEXICO
SERVAL	SRL	S	JO/CENT. BULK//IA	X-16201-100B-101Y-1Y-0M	1978	MEXICO
SETTER	STR	S	M2A	X-2802-70M-3M-1M-2M-0Y	1975	MEXICO
SHEPHERD	SPD	S	M2A*2	X-15754-A-1Y-1M-2Y-3M-0Y	1978	MEXICO
SIKA"S"	SIKA"S"	C	M2A/BUI//DRIRA/KGR	B-2683	1982	MEXICO
SISKIYOU		C	?	UC 8825	1977	CALIFORNIA
SORGO	SOR	S	IRA/CIN	X-13074	1970	MEXICO

Table 1. (continued)

Name	Abbrev.	KT	Pedigree	Cross No. & Selection	Year	Country
STIER"S"	STIER"S"	C	BCH"S"/SPY RYE//BGL/7/EB/4/SON64/ /AN64//NAD/3/JAR"S"/5/WRC 31/6 /OCTO BULK/CIN	B-6712	1984	MEXICO
T-14	?	C	BUEY/BGL"S"	X-16215	?	ECUADOR
T-50	?	?		?	1979	KENYA
T-65	?	?		?	1979	KENYA
TAPIR"S"	TAPIR"S"	S	PTR"S"/M1A	X-36471-22M-2Y-1M-2Y-2Y-0M	1982	MEXICO
TATU"S"	TATU"S"	C	BGL DERIV. SEL BULK/3/MTZ TCL/TRIGO GOOD SEED//BGL GOOD SEED/4/NUTRIA	B-5644	1985	MEXICO
TEDDY"S"	TED"S"	S	TOB/8156//CC/3/INIA/4/SPY/5/M2A	X-19649	1979	MEXICO
TEJON	TJ	S	M2A/CIN BULK 1	X-10860-0Y	1973	MEXICO
TERRIER	TRR	S	M2A/CANADA	X-8208-G-1Y-2M-3Y-0M	1978	MEXICO
TESMO"S"	TESMO"S"	S	PTR"S"/MA 106	X-39860-2Y-7M-1Y-0Y	1982	MEXICO
TETAL"S"	TETAL"S"	S	QKA"S"/4/L3/ARM"S"//M2A/3/ADX"S"	CT-1017	1985	MEXICO
TIGRE"S"	TGE"S"	S	M2A/M1A	X-27947-22M-1Y-0M	1980	MEXICO
TL 419	TL 419	?	?	?	1982	PUNJAB,INDIA
TOORT	TOORT	S	KLA/CIN	?	1984	AUSTRALIA VICT
TOPO	TOPO	C	DRYRA/MA	X-15893	1978	MEXICO
TORO"S"	TORO"S"	S	TOB/CNO"S"//M2A/3/BM"S"	X-24068-C-2Y-1M-1Y-0M	1980	MEXICO
TOWAN	TOWAN	S	IA	X-1648	1981	AUSTRALIA VICT
TUZA	TUZA	S	CIN/CNO//M2A/CIN	X-16332-101Y-0M	?	MEXICO

Table 1. (continued)

Name	Abbrev.	KT	Pedigree	Cross No. & Selection	Year	Country
TYALLA	TLA	S	M2A	X-2802	1979	AUSTRALIA VICT
URON"S"	URON"S"	C	OCTO HV/HARE//BCH"S"/SPY RYE	B-6811	1985	MEXICO
VACA"S"	VACA"S"	S	M2A/CIN//PND"S"	X-36437-7M-2Y-3M-0Y	1981	MEXICO
VENUS	VENUS	C	BEAGLE"S"	X-1530-A-12M-5N-1M-1Y-0M	1981	AUSTRALIA
WELSH	WELSH	S	UM2036 = IA	X-1648	1976	CANADA
WHALE"S"	WHALE"S"	C	W74 103/ADX"S"/3/BGL"S"/M2A//IRA	X-33470-C-1Y-5M-1Y-0M	1982	MEXICO
WOLF"S"	WOLF"S"	S	CML"S"/KAL//LODO"S"/3/OPR"S"/RM"S"	X-50598-A	1984	MEXICO
WOMBAT"S"	WBT"S"	?	PG"S"/CENT BULK//ABN"S"/3/IRA/CML	X-39697	1983	MEXICO
YAK	YAK	S	IRA/IRA//M2A/M2A	X-11308-B-2M-3Y-2Y-4M-0Y	1976	MEXICO
YOCO	YO	S	IA	X-1648-2M-0M	1974	MEXICO
YOGUI"S"	YOGUI"S"	C	MERINO/MUS"S"	B-2734	1982	MEXICO
YOREME 75	YE	S	M2A	X-2802-38M-3M-7N-5M-0Y	1975	MEXICO
ZEBRA	ZEBRA	C	MUS"S" /MERINO"S"	B-2672	1982	MEXICO
ZEBU	ZEBU	C	UM940"S"/MY64	X-1039-14M-1Y-16M-1Y-0M	1978	MEXICO

* KT =karyotype C = Compleat type S = Substition type ? = Unknown
"S" = Sib or Sister "R" = Reselection

Table 2. Triticale cultivars and advanced lines with common origins.

Name	Abbrev	ET	Pedigree	Cross No & Selection	Year	Country
BADGER	BGR	S	selection from a bulk outcrossing population	E2-68B-0Y	1969	MEXICO
BEAVER	BVR	S	selection from a bulk outcrossing population	E2-68B-	1969	MEXICO
ARMADILLO	ARM	S	TCL DUR "GHIZA"/TCL DUR "CRLT"/3/ TCL PERS /TCL DUR//TCL DIC/TCL PERS- outcrossed to Breadwheat	X-308	1968 1979	MEXICO PORTUGAL
ARIES	ARS	S	TCL DUR "GHIZA"/TCL DUR "CRLT"/3/ TCL PERS./TCL DUR//TCL DIC/TCL PERS- outcrossed to Bread	X-308-6Y-2M-100Y-0B	1970	MEXICO
OAC TRIWELL	?	C	BGL"S"	X-1530	1980	GUELPH, CANADA
BEAGLE	BGL	C	UM"S"/TCL BULK	X-1530-A-12M-5N-1M-0Y	1974 1981 1982	MEXICO PORTUGAL FLORIDA, USA
CARMAN	CARMAN	C	BGL"S"	X-1530-A-12M-5N-1M-0Y	1980	WINNIPEG
VENUS	VENUS	C	BGL"S"	X-1530-A-12M-5N-1M-1Y-0M	1981	AUSTRALIA
TOWAN	TOWAN	S	IX	X-1648	1981	AUSTRALIA, VIC
WELSH	WELSH	S	UM203 = IA	X-1648	1978	CANADA
YOCO	YO	S	IA	X-1648-2N-0M	1974	MEXICO
CAMEL	CML	S	IA	X-1648-2N-1M-0Y	1969	MEXICO
COORONG	CRG	S	IA	X-1648-5N-2M-0Y-2D-0Y	1980	S-AUSTRALIA
LINCE	LNC	S	IA	X-1648-8N-3M-0Y	1975	MEXICO

Table 2. (continued)

Name	Abbrev.	KT	Pedigree	Cross No.& Selection	Year	Country
KOALA	KLA	S	SON 64/P4160// T. POL MIKA/3/SON 64/4/RYE MERCED/5/TCL DUR "CRLT" /TCL DUR GHIZA//ARM "S"	X-2091-102Y-0N-1M-0M	1969	MEXICO
LEO	LEO	S	SON 64/P4160// T. POL MIKA/3/SON 64/4/RYE MERCED/5/TCL DUR "CRLT" /TCL DUR GHIZA//ARM"S"	X-2091-102Y-0N-1M-2N-1M-0Y	1969	MEXICO
DACHSHOND	DACH	S	INIA/RYE*2//ARM"S"	X-2142-1N-1M-0N	1970	MEXICO
BUSH	BUSH	S	INIA/RYE*2//ARM"S"	X-2142-4N-5M-0N	1971	MEXICO
RAHUM	RM	S	M1A	X-2148-1N-1M-0Y	1974	MEXICO
BISON	BSN	S	M1A	X-2148-5N-2M-1Y-2M-0Y	1978	MEXICO
DUA	DUA	S	M2A	X-2802	1980	AUSTRALIA NSW
MANIGERO	MAN	S	M2A	X-2802	1979	SPAIN
MIZAR	MZR	S	M2A	X-2802	1979	ITALY
SATU	SATU	S	M2A	X-2802	1979	AUSTRALIA NSW
TYALLA	TLA	S	M2A	X-2802	1979	AUSTRALIA VICT
ANGORA	AGR	S	M2A	X-2802-9N-2M-3N-0M	1978	MEXICO
LLAMA	LMA	S	M2A	X-2802-38N-3M-3N-0M	1978	MEXICO
NAVOJOA	NV	S	M2A	X-2802-38N-3M-6N-6M-0Y	1974	MEXICO
YOREME 75	YE	S	M2A	X-2802-38N-3M-7N-5M-0Y	1975	MEXICO
ARABIAN	ABN	S	M2A	X-2802-38N-5M-6N-6M-0Y	1974 1981	MEXICO PORTUGAL
KARL	KARL	S	M2A = ABN"S"	X-2802-38N-5M-6N-6M-1Y-1M-0Y	?	N.DAKOTA, USA

Table 2. (continued)

Name	Abbrev.	XT	Pedigree	Cross No.& Selection	Year	Country
CINNAMON	CIN	S	M2A	X-2802-68N-5M-0N	1970	MEXICO
MONSANTO	MONSANTO	S	M2A	X-2802-70N-3M-1N-2M-0Y	1983	PORTUGAL
SETTER	STR	S	M2A	X-2802-70N-3M-1N-2M-0Y	1975	MEXICO
CANANEA 79	CAN	S	M2A = MAPACHE	X-2802-F-12M-1N-1M-0Y	1979	MEXICO
MAPACHE	MPE	S	M2A	X-2802-F-12M-1N-1M-0Y	1975 1981	MEXICO PORTUGAL
KRAMER	KRAMER	S	M2A = MPE	X-2802-F-12N-1M-1N-1M-0Y	?	N.DAKOTA, USA
BACUM	BCM	S	M2A	X-2832-24M-3M-7N-4M-0Y	1974 1981	MEXICO PORTUGAL
LOBO	LOBO	S	M2A	X-2832-29M-6M-3N-0M	1975	MEXICO
DRIRA	DRIRA	C	DR 44/3/INIA/RYL//ARM"S"	X-7110	1974	MEXICO
NINGADHU	NGD	C	DRIRA SEL	X-7110	1980	AUSTRALIA
PANDA	PND	S	M2A/CML	X-8386-D-2Y-0M	1979	MEXICO
BR-1	BR-1	S	= PANDA"S" = PFT 766	X-8386-D-2Y-0M-101Y-101B-107Y-0Y	1984	BRAZIL
CEP-15 BATOVI	CEP-15	S	= PANDA"S" = TCEP 77138	X-8386-D-2Y-0M-110Y-103B-109Y-1Y-1M-100Y-0Y	1984	BRAZIL
BURA	BURA	S	M2A/IRA	X-8417-E-1Y-7M-3Y-0Y	1976	MEXICO
CABORCA 79	BURA	S	M2A/IRA	X-8417-E-1Y-7M-3Y-0Y	1979	MEXICO
RAM	RAM	C	IA/IRA//BUITRE	X-12257-2N-0M	1978	MEXICO
SAMSON	SAM 145	C	RAM	X-12257-2N-0M	1984	AUSTRALIA
DELFIN	DF	C	M2A/BGL"S"	X-15490	1978	MEXICO

Table 2. (continued)

Name	Abbrev.	KT	Pedigree	Cross No.& Selection	Year	Country
OCEPAR-1	OCEPAR-1	C	= DELFIN"S"	X-15490	1984	BRAZIL
BORBA-1	BORBA-1	C	BOK	X-15673-A-1Y-2Y-1M-0Y	1984	PORTUGAL
BOK"S"	BOK"S"	C	BGL"S"//MZA/CIN	X-15673-A-1Y-2Y-8M-0Y	1982	MEXICO
ERONGA 83	ERONGA 83	C	JLO 159	X-21295	1983	MEXICO
JUAN	JUAN	C	JLO 168	X-21295	1984	CAL,USA
JUANILLO	JLO	C	DHIRA//KISS/ARMX"S"	X-21295	1978	MEXICO
ALAMOS 83	ALM	S	CHIVA"S"	X-24551-8Y-3M-1Y-0M	1983	MEXICO
CHIVA"S"	CHV"S"	S	ABN"R"/M1A	X-24551-9Y-3M-1Y-0M	1980	MEXICO

* KT = Karyotype C = Compleat type S = Substition type ? = Unknown
"S" = Sib or Sister "R" = Reselection

Table 3. Triticale cultivars and advanced lines sorted according to cross numbers.

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
MERINO"S"	MERINO"S"	C	M2A/TCL WHEATY//INIA/3/BGL"S"	B-199	1980	MEXICO
ELK	ELK	C	M2A/DRIRA	B-507	1982	MEXICO
FARO"S"	FARO"S"	C	BGL"S"/COQ//IRA/CHL	B-2264	1983	MEXICO
CIVET"S"	CIVET"S"	C	MUS"S"//DRIRA/KGR	B-2658	1982	MEXICO
PANCHE	PANCHE	C	MUS"S"/JLO"S"	B-2671	1982	MEXICO
ZEBRA	ZEBRA	C	MUS"S"/MERINO"S"	B-2672	1982	MEXICO
SIKA"S"	SIKA"S"	C	M2A/BUI//DRIRA/KGR	B-2683	1982	MEXICO
HARE"S"	HARE"S"	C	CIN/CNO//BGL/3/MERINO"S"	B-2700	1982	MEXICO
NUTRIA	NUTRIA	C	MERINO"S"/JLO	B-2709	1982	MEXICO
YOGUI"S"	YOGUI"S"	C	MERINO/MUS"S"	B-2734	1982	MEXICO
PLATYPUSS"S"	PLYS"S"	C	BGL DERIV./ANTEATER"S"	B-2824	1983	MEXICO
BAER"S"	BAER	C	K6656/TOB66//3221.71/3/UC 90/4/ M2A*2/	B-5586	1984	MEXICO
TATU"S"	TATU"S"	C	BGL DERIV SEL BULK/3/MTZ TCL/ TRIGO GOOD SEED//BGL GOOD SEED/4/NUTRIA	B-5644	1985	MEXICO
STIER"S"	STIER"S"	C	BCH"S"/SPY RYE//BGL/7/BD/4/ /SON64/AN64//HAD/3/JAR"S"/5/WRC 31/6/OCTO BULK/CIN	B-6712-166-6Y-1Y-2H-500Y	1984	MEXICO
URON"S"	URON"S"	C	OCTO NV/HARE//BCH"S"/SPY RYE	B-6811	1985	MEXICO
GNU"S"	GNU"S"	C	OCTO NV//DRIRA/BGL"S"/3/BCH"S"/ SPY RYE	B-6912	1984	MEXICO

Table 3. (continued)

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
ARRNED	ARR	C	OCTO/DRIRA/M1A/3/CIN/CNO//BGL"S /7/DB/4/SON64//NAD/3/JAR"S"/5/ WRC 31/6/DRIRA/M1A	B-7974-102-1Y-2Y-2H-0Y	1985	MEXICO
RHINO"S"	RHINO"S"	C	GRIZZLY"S"//AI FONG #3/DOVE	CIT-1367	1985	MEXICO
SEAL"S"	SEAL"S"	S	CMH73A 785/SX//CMH77A.1165	CMH80.1157	1985	MEXICO
BOAR	BOAR	S	CMH73 802//FTA/CJ 71/3/CMH77.1135 /4/CMH75.1070	CMH82.902-1Y-2B-2Y-0B	1985	MEXICO
TETAL"S"	TETAL"S"	S	QKA"S"/4/E3/ARM"S"//M2A/3/ADX"S"	CT-1017	1985	MEXICO
BAT	BAT	C	BCM"S"/PM 28 BULK/3/BGL"S"/M2A/ /RM"S"/PTR"S"	CT-2211-500M-501M-503Y-5B-0Y	1985	MEXICO
OTTER"S"	OTTER"S"	S	BTA"S'//PND"S"/YE 75/5/E3/ARM"S"/ /M2A/3/ADX"S"/4/NV"S"/BGL"S"	CT-5229-A-1M-2Y-0M	1984	MEXICO
ARDILLA	ARD	C	"HARE 262//MERINO"S"/JLO"S"	CTM-13973-1Y-500Y	1985	MEXICO
BADGER	BGR	S	selection from a bulk outcrossing population	E2-68B-0Y	1969	MEXICO
BEAVER	BVR	S	selection from a bulk outcrossing population	E1-68B-0Y	1969	MEXICO
CALBUCO-INIA	?	?	DRIRA//INIA/ARM/3/M2A	TT. 210-1t-t-9t	1984	CHILE
SISKIYOU	?	C	?	UC 8825	1977	CALIFORNIA
KANGAROO	KGR	C	TCL DUR "GHIZA"/TCL DUR "CRLT"/ /TCL PERS/TCL DUR	X-1-1-F4UM-2M-2Y-3C-1Y	1969	MEXICO
BRONCO 90	BCO	?	TCL DUR "SP. PET"/TCL "GHIZA"/ /TCL DUR	X-224-15Y-2M-1Y-1M-0Y	1969	MEXICO

Table 3. (continued)

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
ARMADILLO	ARM	S	TCL DUR "GHIZA"/TCL DUR "CRLT"/3/ TCL PERS /TCL DUR//TCL DIC/TCL PERS-outcrossed to Breadwheat	X-308	1968	MEXICO
					1979	PORTUGAL
ARILS	ARS	S	TCL DUR "GHIZA"/TCL DUR "CRLT"/3/ TCL PERS./TCL DUR//TCL DIC/TCL PERS-outcrossed to Breadwheat	X-308-6Y-2M-100Y-0B	1970	MEXICO
GRILLO	GO	C	GHIZA/CRLT//PER/DUR/3/PER//STW /PROL	X-313	1970	MEXICO
BRUIN 46	BRN	?	TCL PERS.//TCL DICDS/TCL DUR "CTRL"/3/MTE 20/4/T PLRS	X-653-17M-8Y-2M-0Y	1969	MEXICO
ZEBU	ZEBU	C	UM940"S"/MY64	X-1039-14M-1Y-16M-1Y-0M	1978	MEXICO
OAC TRIWELL	?	C	BGL"S"	X-1530	1980	GUELPH, CANADA
BEAGLE	BGL	C	UM"S"/TCL BULK	X-1530-A-12M-5M-1M-0Y	1974 1981 1982	MEXICO PORTUGAL FLORIDA, USA
CARMAN	CARMAN	C	BGL"S"	X-1530-A-12M-5M-1M-0Y	1980	WINNIPEG
VENUS	VEN	C	BGL"S"	X-1530-A-12M-5M-1M-1Y-0M	1981	AUSTRALIA
TOWAN	TOWAN	S	IA	X-1648	1981	AUSTRALIA, VICT.
WELSH	WELSH	S	UM2038 = IA	X-1648	1978	CANADA
YOCO	YO	S	IA	X-1648-2M-0M	1974	MEXICO
CAMEL	CML	S	IA	X-1648-2M-1M-0Y	1969	MEXICO

Table 3. (continued)

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
COORONG	CRG	S	IA	X-1648-5N-2N-0Y-2B-0Y	1980	S-AUSTRALIA
LINCE	LNC	S	IA	X-1648-8N-3M-0Y	1975	MEXICO
KOALA	XLA	S	SON 64/P4160// T POL MIKA/3/SON 64/4/RYE MERCED/5/TCL DUR "CRLT" /TCL DUR GHIZA//ARM "S"	X-2091-102Y-0N-1M-0M	1969	MEXICO
LEO	LEO	S	SON 64/P4160// T POL MIKA/3/SON 64/4/RYE MERCED/5/TCL DUR "CRLT" /TCL DUR GHIZA//ARM"S"	X-2091-102Y-0N-1M-2N-1M-0Y	1969	MEXICO
DACHSHOND	DACH	S	INIA/RYE*2//ARM"S"	X-2142-1N-1M-0N	1970	MEXICO
BUSH	BUSH	S	INIA/RYE*2//ARM"S"	X-2142-4N-5M-0N	1971	MEXICO
RAHUM	RM	S	M1A	X-2148-1N-1M-0Y	1974	MEXICO
BISON	BSN	S	M1A	X-2148-5N-2M-3Y-2M-0Y	1974	MEXICO
BGC	BGC	S	BADGER/CALIDAD	X-2350	1969	MEXICO
DUA	DUA	S	M2A	X-2802	1980	AUSTRALIA, NSW
MANIGERO	MAN	S	M2A	X-2802	1979	SPAIN
MIZAR	MZR	S	M2A	X-2802	1979	ITALY
SATU	SATU	S	M2A	X-2802	1979	AUSTRALIA, NSW
TYALLA	TLA	S	M2A	X-2802	1979	AUSTRALIA, VICT
ANGORA	AGR	S	M2A	X-2802-9N-2M-3N-0M	1978	MEXICO
LLAMA	LMA	S	M2A	X-2802-38N-3M-3N-0M	1978	MEXICO
NAVOJOA	NV	S	M2A	X-2802-38N-3M-6N-6M-0Y	1974	MEXICO

Table 3. (continued)

Name	Abbrev.	Zt	Pedigree	Cross No.& Selection	Year	Country
YORLME 75	YE	S	M2A	X-2802-38N-3M-7N-5M-0Y	1975	MEXICO
ARABIAN	ABN	S	M2A	X-2802-38N-5M-6N-6M-0Y	1974 1981	MEXICO PORTUGAL
KARL	KARL	S	M2A =ABN"S"	X-2802-38N-5M-6N-6M-1Y-1M-0Y	?	N.DAKOTA,USA
CINNAMON	CIN	S	M2A	X-2802-68N-5M-0N	1970	MEXICO
MONSANTO	MONSANTO	S	M2A	X-2802-70N-3M-1N-2M-0Y	1983	PORTUGAL
SETTER	STR	S	M2A	X-2802-70N-3M-1N-2M-0Y	1975	MEXICO
CANANEA 79	CAN	S	M2A = MAPACHE	X-2802-F-12M-1N-1M-0Y	1979	MEXICO
MAPACHE	MPE	S	M2A	X-2802-F-12M-1N-1M-0Y	1975 1981	MEXICO PORTUGAL
KRAMER	KRAMER	S	M2A = MPE	X-2802-F-12N-1M-1N-1M-0Y	?	N.DAKOTA,USA
BACUM	BCM	S	M2A	X-2832-24N-3M-7N-4M-0Y	1974 1981	MEXICO PORTUGAL
LOBO	LOBO	S	M2A	X-2832-29N-6M-3N-0M	1975	MEXICO
DRIRA	DRIRA	C	DR 44/3/INIA/RYE//ARM"S"	X-7110	1974	MEXICO
NINGADHU	NGD	C	DRIRA SEL	X-7110	1980	AUSTRALIA
ADDAX	ADX	C	OCTO GC/AGROT	X-7224-10M-1Y-100M-0Y	1978	MEXICO
CASTOR"S"	CASTOR"S"	?	OCTO BULK/BUSH	X-7233-17N-3Y-2N-0Y	1981	MEXICO
GAZELLE	GZL	S	CINUEM/CIN"S"	X-7267-27M-2Y-3M-0Y	1978	MEXICO
TERRIER	TRR	S	M2A/CANADA	X-8208-0-1Y-2M-3Y-0M	1978	MEXICO
MISI	MS	S	M1A/CIN	X-8255-A-101Y-0M-100Y	1979	MEXICO
PANDA	PND	S	M2A/CML	X-8386-D-2Y-0M	1979	MEXICO

Table 3. (continued)

Name	Abbrev.	Et	Pedigree	Cross No.& Selection	Year	Country
BR-1	BR-1	S	= PANDA"S" = PFT 766	X-8386-D-2Y-0M-101Y-101B-107Y-0Y	1984	BRAZIL
CEP-15 BATOV	CEP-15	S	= PANDA"S" = TCEP 771387	X-8386-D-2Y-0M-110Y-103B-109Y-1Y-1M-100Y-0Y	1984	BRAZIL
BURA	BURA	S	M2A/IRA	X-8417-E-1Y-7M-3Y-0Y	1976	MEXICO
CABORCA 79	BURA	S	M2A/IRA	X-8417-E-1Y-7M-3Y-0Y	1979	MEXICO
MASTIFF	MSF	S	M2A*2	X-8504-C-2Y-2M-100M-0Y	1978	MEXICO
BONGO	BNG	S	KLA/M2A	X-8816-A-1Y-1M-2Y-0Y	1978	MEXICO
BUEY	BE	C	TOB/8156<B>//PARANA/D67.3 outcrossed with Triticale	X-10390-A-1Y-1M-0Y	1971	MEXICO
CARIBOU	CRB	S	M2A//SD 648 5/8156	X-10473-C-1Y-1M	1978	MEXICO
TEJON	TJ	S	M2A/CIN BULK 1	X-10860-0Y	1973	MEXICO
JABALI	JAB	S	M2A*2	X-10867	7	MEXICO
FOX	FOX	S	M2A/CIN4	X-10870	1978	MEXICO
PUPPY	PUPPY	S	M2A/IA	X-10874	7	MEXICO
ELAND	ELD	S	M2A//KLA /BRN"S"	X-10893-A-1M-1Y-0Y	1978	MEXICO
IMPALA	IMP	S	BGC/BULK E2	X-11066-E-9M-2Y-0Y	1978	MEXICO
YAK	YAK		IRA/IRA//M2A/M2A	X-11308-B-2M-3Y-2Y-4M-0Y	1978	MEXICO
RAM	RAM	C	IA/IRA//BUITRE	X-12257-2N-0M	1978	MEXICO
SAMSON	SAM 145	C	RAM	X-12257-2N-0M	1984	AUSTRALIA
OCLLOT	OLT	S	M2A/IA	X-12677-56Y-1Y-3M-0Y	1978	MEXICO
SONGO	SOR	S	IRA/CIN	X-13074	1970	MEXICO

Table 3. (continued)

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
PANTHER	PTR	S	TJ/IRA	X-13895-B-100Y-101B-103Y-0Y	1976	MEXICO
MORRISON	MORRISON	S	TJ/IRA	X-13896-D-100Y-102D-100Y-100-17M-0Y	1985	ALABAMA,USA
BUNNY	BN	?	LS3 1/PI62//INIA/3/CC/INIA/4 /SNOOPY/5/CIN	X-14006-A-100Y	1971	MEXICO
CHUU"S"	CHUU"S"	S	BGC/TI71	X-14536-18Y-1Y-1Y-1B-1Y-1B-0Y	1980	MEXICO
BONITO	BTO	S	IA/KLA//CAL	X-14920-8Y-1Y-0Y	1976	MEXICO
CIERVO	CV	C	MAGHREBI"S"/BR"S"//MO/3/ CENTENO ALTO	X-15041	1978	MEXICO
DELFIN	DF	C	M2A/BGL"S"	X-15490	1978	MEXICO
OCEPAR-1	OCEPAR-1	C	= DELFIN"S"	X-15490	1984	BRAZIL
CURRENCY	CRY	C	M1A/BGL"S"	X-15552-33H-2Y-2Y-1M-0Y	1983	S-AUSTRALIA
MUSKOX"S"	MUS"S"	C	IRA/BGL"S"	X-15570-1Y-1B-100B-0Y	1980	MEXICO
FLORIDA 201	?	?	BGL/M2A	X-15671-FF7	1985	FLORIDA,USA
BORBA-1	BORBA-1	C	BOK	X-15673-A-1Y-2Y-1M-0Y	1984	PORTUGAL
BOK"S"	BOK"S"	C	BOL"S"//M2A/CIN	X-15673-A-1Y-2Y-8M-0Y	1982	MEXICO
CUYO	CUYO	?	XIS3/CIN"R"	X-15691-106Y-1M-0Y	1979	MEXICO
LYNX	LYNX	C	M2A/ARM"S"//BGL"S"	X-15733-15Y-3M-2Y-1M-0Y	1978	MEXICO
SHEPHERD	SPD	S	M2A*2	X-15754-A-1Y-1M-2Y-3M-0Y	1978	MEXICO
TOPO	TOPO	C	DRIRA/MA	X-15893	1978	MEXICO
OCEPAR-2	OCEPAR-2	C	= ITOC 8432 = TJ/BGL"S"	X-16134-35Y-1Y-1M-1Y-1B-0Y	1984	BRAZIL

Table 3. (continued)

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
GOPHER	GPR	S	JABALI/M2A	X-16155-100Y-2M-2Y-0M	1978	MEXICO
SERVAL	SRL	S	JO/CENT. BULK//IA	X-16201-100B-101Y-1Y-0M	1978	MEXICO
TUZA	TUZA	S	CIN/CNO//M2A/CIN	X-16332-101Y-0M	?	MEXICO
ANTEATER"S"	ATE	C	CIN/PI251923//PATO/3/BGL"S"	X-16350	1982	MEXICO
FERRET	FRT	S	BGC/IA//BB /3/M2A/CIN	X-16375-102Y-0Y-100M-0Y	1978	MEXICO
MULA"S"	MULA"S"	C	M2A/BGL"S"	X-18330-3M-2Y-2M-1Y-2M-0Y	1981	MEXICO
TEDDY"S"	TED"S"	S	TOB/8156//CC/3/INIA/4/SPY/5/M2A	X-19649	1979	MEXICO
ERONGA 83	ERONGA 83	C	JLO 159	X-21295	1983	MEXICO
JUAN	JUAN	C	JLO 168	X-21295	1984	CAL,USA
JUANILLO	JL	C	DRIRA//KISS/ARM"S"	X-21295	1978	MEXICO
BEAGUELITA	BTA	C	BGL"S"/3/BGL//1TA/LEO	X-22427-101Y-2M-2Y-0M	1978	MEXICO
CHEETAH	CHT	C	BGL"S"/3/ARS/MEXIPAK MUT //BGL"S"	X-22473-102Y-100Y-6M-0Y	1978	MEXICO
POLAR"S"	POL"S"	S	IRA/BGL"S"//M2A"2/CIN	X-22591	1979	MEXICO
FAWN	FAWN	S	CHAPALA/SPY//M2A	X-22652-100Y-101Y-0M	1978	MEXICO
TORO"S"	TORO"S"	S	TOB/CNO"S"//M2A/3/RM"S"	X-24068-C-2Y-1M-1Y-0M	1980	MEXICO
PONY"S"	PONY"S"	S	M2A/BULK E2//CHL"S"	X-24209-3Y-1M-5Y-1M-2Y-0M	1981	MEXICO
ALAMOS 83	ALM	S	CHIVA"S"	X-24551-8Y-3M-1Y-0M	1983	MEXICO
CHIVA"S"	CHV"S"	S	ABN"R"/M1A	X-24551-8Y-3M-1Y-0M	1980	MEXICO
BOA"S"	BOA"S"	S	BVR"S"/ABN"S"	X-24560-9Y-3M-1Y-0M	1980	MEXICO
PUMA"S"	PUMA"S"	S	IA/CIN//M1A	X-27554-A-1M-6Y-3M-1Y-0M	1980	MEXICO

Table 3. (continued)

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
LECHON"S"	LECHON"S"	S	LNC"S"/ABN"S"	X-27605-11M-1Y-1M-1Y-3M-0Y	1981	MEXICO
TIGRE"S"	TGE"S"	S	M2A/M1A	X-27947-22M-1Y-0M	1980	MEXICO
JUPPA"S"	JUPPA"S"	S	CHAPALA/SPY//YL	X-28579-1XE-0XE-1Y-2D-0Y	1980	MEXICO
LIEBRE"S"	LIEBRE"S"	S	NV"S"/LNC"S"	X-31100-5Y-1M-2Y-0M	1980	MEXICO
RAT"S"	RAT"S"	S	GOPHER"S"//IA/BUSH	X-31976-A-1Y-500M-501Y-500B-0Y	1981	MEXICO
CHORIZO"S"	CHORIZO	S	NOR/TOR /4/PATO/7C/3/CC/8156/ /CNO"S"/5/CENT 2788/6/ FS 477	X-32450-A-4Y-2M-3Y-1M-0Y	1982	MEXICO
GIRAF"S"	GRI"S"	C	ABN/CHA§2 outcrossed with Triticale	X-32636-2Y-5B-0Y	1979	MEXICO
MOUSL"S"	MSE"S"	S	CHL"S"/KAL//KAL	X-32709-3Y-4D-0Y	1979	MEXICO
LEMMING"S"	LMG"S"	S	STR"S"/FS100/3/M2A/CIN//CHL"S"	X-33204-I-100Y-100M-102Y-0M	1979	MEXICO
WHALE"S"	WHALE"S"	C	W74 103/ADX"S"/3/BGL"S"/M2A//IRA	X-33470-C-1Y-5M-1Y-0M	1982	MEXICO
GRIZZLY"S"	GRIZZLY"S"	S	SETTER"S"/PANDA"S"	X-34530-600M-1Y-1M-1Y-0Y	1980	MEXICO
ECHIDNA"S"	EDA"S"	S	PTR"S"/M1A	X-34824-501M-500Y-501B-503Y-501Y-0M	1983	MEXICO
VACA"S"	VACA"S"	S	M2A/CIN//PND"S"	X-36437-7M-2Y-3M-0Y	1981	MEXICO
TAPIR"S"	TAPIR"S"	S	PTR"S"/M1A	X-36471-22M-2Y-1M-2Y-2Y-0M	1982	MEXICO
IAPAR 13 ARAUCARIA	IAPAR 13	S	=TPOL 8432 = PANDA"S"/RM	X-36517-613-M-0Y	1984	BRAZIL
MONO"S"	MONO"S"	S	M2A*2/STR"S"//IA/ABN	X-38248-D-6M-1Y-1M-1M-0Y	1982	MEXICO
RATEL"S" LIEBRE"S"	RATEL"S"	S	RM"S"//BGL"S" /M2A/3/M2A*2/4/	X-38302-D-1M-1Y-2M-0Y	1982	MEXICO
QUOKKA"S"	XQA"S"	S	PND"S"/GPR"S"	X-39253	1983	MEXICO

Table 3. (continued)

Name	Abbrev.	Kt	Pedigree	Cross No.& Selection	Year	Country
LONQUIMAY-INIA	?	S	M2A*2//TJ/IRA	X-39348-1Y-2t-1t	1984	CHILE
PIKA"S"	PIKA"S"	S	PTR"S"//CIN /F64 658	X-39597-4Y-2M-1Y-2Y-0H	1982	MEXICO
WOMBAT"S"	WBT"S"	?	PG"S"/CENT. BULK//ABN"S"/3/ IRA/CML	X-39697	1983	MEXICO
TLSMO"S"	TESMO"S"	S	PTR"S"/MA 106	X-39860-2Y-7M-1Y-0Y	1982	MEXICO
DINGO"S"	DGO"S"	S	BCM"S"//M2A/IRA/3/FS1897//IRA/CAL	X-41047-A-1Y-2M-1Y-2Y-2M-1Y-1B	1983	MEXICO
ASAD	ASAD	C	DURUM WHEAT/BALBO//DF"S"	X-49862-3Y-2Y-5M-1Y-1M-0Y	1985	MEXICO
ESEL"S"	ESEL"S"	S	PND"S"/MPE"S"//GPR"S"/YAX"S"	X-50408-B-5Y-2Y-1M-1Y-0	1984	MEXICO
WOLF"S"	WOLF"S"	S	CML"S"/KAL//LOBO"S"/3/GPR"S"/RM"S"	X-50598-A	1984	MEXICO
KATZE"S"	KATZE"S"	S	DACK/WLOSZANOWSKIE//M2A*2	X-53260	1983	MEXICO
REH"S"	REH"S"	S	SRL"S"//M2A/CAL/5/DUEY/BGL"S"/ /MFS"S"/3/IA/IRA/4/ADX"S	X-54032-B	1983	MEXICO
HIPPO"S"	HIPPO"S"	S	PND"S"/SPD"S"/4/TGE"S"/3/PG"S"/ CENT BULK//ABN"S"	X-62468	1985	MEXICO
MUSTANG"S"	MST"S"	S	ABN"S"//M2A /IRA/3/PND"S"/CASTOR/ 4/416/SPY//TED"S"	X-63377-L-2Y-2M-0Y	1984	MEXICO
LAMM"S"	LAMM"S"	S	LMG"S"/SPD"S"/4/BGL"S"/MUS"S"/ /FS477/3/BTA"S"	X-63773-D-1YP-1MP-0Y	1983	MEXICO

* KT = Karyotype C = Compleat type S = Substition type ? = Unknown
"S" = Sib or Sister "R" = Reselection

Table 4. Abbreviations indicating types and locations where crosses were made.

Letter * Code **	Explanation	Organization, Location
B	Former designation for crosses of Complete Triticales	CIMMYT, Mexico
CIT	Interspecific Triticale Cross	CIMMYT, Mexico
CMH	Cross designation used by germplasm development section of CIMMYT	CIMMYT, Mexico
CT	Triticale Cross	CIMMYT, Mexico
CTM	Mexican Triticale Cross	CIMMYT, Mexico
CTPH	Hexaploid Primary Triticale Cross	CIMMYT, Mexico
CTPO	Octoploid Primary Triticale Cross	CIMMYT, Mexico
E2	Enano 2 - former designation for reduced height	CIMMYT, Mexico
SWT	Spring x Winter Triticale crosses	CIMMYT, Mexico
TT	Temuco Triticale	Temuco, Chile

Table 4. (continued)

Letter * Code **	Explanation	Organization, Location
UC	University of California	Davis, Calif., USA
X	Former designation for triticale crosses by CIMMYT/INIA	CIMMYT/INIA, Mexico

* CIMMYT cross designation includes a letter code followed by a number. This combination is the cross number.
Eg: CTM-17805.

** Begining 1986, the first two digits in the cross number refers to the year of crossing and the later numbers will indicate the number of cross in that year.

Eg: Letter Code	Year	No.
CTM -	86	101

Table 5. Abbreviations indicating where selections were made.

Letter Code*+	Name	Location
B	Batan	El Batan, Mexico
F	Passo Fundo	Passo Fundo, Brazil
FP	Florida Plant Selection	USA
H	Huamantla	Huamantla, Mexico
KE	Kenya	Njoro, Kenya
M	Mexico	Toluca, Mexico
MP	Mexico Precoz (Early)	Toluca, Mexico
N	Navojoa	Navojoa, Mexico
NIAB	Nuclear Institute for Agriculture and Biology	Faiselabad, Pakistan
t	Temuco	Temuco, Chile
TL	Triticale Ludhiana	India
UC	University of California	Davis, Calif., USA
UM	University of Manitoba	University of Manitoba, Canada

Table 5. (continued)

Letter Code*+	Name	Location
UPT	Agricultural University of Pantnagar Triticale	India
Y	Yaqui	Cd. Obregon, Mexico
YP	Yaqui Precoz (Early)	Cd. Obregon, Mexico

* In number-letter combinations, the number identifies the individual plant selected and the letter indicates the location of the selection. e.g. X-12257-2N-OM

\+ A letter following a cross number identifies plant selections made in the F1 of a three-way or a double cross. e.g. X-15673-A-1Y-2Y-8M-0Y

Table 6. Abbreviations (referring to triticales) used in Table 1 but not defined.

Abbreviations	Explanation
BR	Varietal designation used by CNPT/EMBRAPA, Brazil
CEP	Varietal designation used by FECOTRIGO, Brazil
DR	Durum Rye, a primary triticale
E3	Enano 3 = Dwarf 3
FS	Fertility Study
IA	Inia/Armadillo
IAPAR	Varietal designation used by IAPAR, Brazil
IRA	Inia/Rye/Armadillo
IT	Advanced Line designation used by IAPAR, Londrina, Brazil
ITA	Inia/Turkish rye/Armadillo
ITOC	Advanced Line designation used by OCEPAR, Brazil
KISS	Winter Triticale from Hungary
MA	Maya/Armadillo
MAYA 1	Octoploid triticale based on the bread wheat variety INIA66 with an unknown rye
MAYA 2	Octoploid triticale based on the bread wheat variety INIA66 with another unknown rye
M1A	Maya 1/Armadillo
M2A	Maya 2/Armadillo
MTZ	Metzger Triticale
NV	Navojoa

Table 6. (continued)

Abbreviations	Explanation
OCEPAR	Varietal designation used by OCEPAR, Bro
OCTO OCT	Octoploid Out Cross
PFT	Passo Fundo Triticale
PM 28	Multiplication plot 28
TCEP	Advanced Line designation used by FECOTRIGO, Brazil
TCL	Triticale
TCL wheaty	Triticale having a wheat phenotype
TPOLO	Advanced Line designation used by IAPAR, Ponta Grossa, Brazil
UC	University of California
UM	University of Manitoba
W74-103	A winter triticale

Table 7. Abbreviations (referring to tetraploid wheat appearing in triticale pedigrees) used in Table 1 but not defined*.

Abbreviations	Explanation
BR	Brant
CH	Chapala
CRLT	Carlton
D673	Durum line from Tunissia
DACK	Dackiye
DICD	Dicoccoide
DUR	Durum
GHIZA	Durum from Egypt
HO	Huevos de Oro
MAGH	Maghrebi
PARANA	Durum line from Argentina
PERS	Persicum
PG	Pinguino
STW	Stewart
T. Pol Mika	Triticum polonicum Va. Mika

* For additional information, see "CIMMYT Durum Wheat-Names, Parentages, Pedigrees and Origins"

Table 8. Abbreviations (referring to bread wheats appearing in triticale pedigrees) used in Table 1 but not defined*.

Abbreviation	Explanation
3221.71	A parent of a Kenyan advanced line
7C	Siete cerros
8156(R)	Penjamo"S"/Gabo 55 * Super X
AGROT	Agro-Triticum (Agropyron-Triticum)
AI FONG	Chinese wheat
AN 64	Andes 64
BB	Bluebird
BCH	Brochis
BUI	Buitre
CAL	Calidad
CC	Correcaminos
CHA # 2	Chanate # 2
CJ 71	Cajeme 71
CNO	Ciano 67
COQ	Coquena
DOVE	Dove
FTA	Fortuna
FW 121	Feed Wheat 121
INIA	INIA 66
JAR	Jaral 66
K 6656	A Kenyan Wheat
LS-31	Wheat/Agropyron
MEXIPAK MUT	Mexipak Mutant
MTE 20	Marte 20
MY 64	Mayo 64
NAD	Nadadores M 63
NOR	Norteno 67
P 4160	Ninari "S"
PATO	Pato
PI	Plant Introduction number of USDA
PI 62	Pitic 62
SD 648-5	Semidwarf 648-5
SON 64	Sonora 64
SX	Super X
TI 71	Tanori F 71
TOB 66	Tobari 66
TOR	Tordo
TRIGO	Wheat

* For additional information, see "CIMMYT Semidwarf Bread Wheats - Names, Parentages, Pedigrees, Origin"

Table 9. Abbreviations (referring to ryes appearing in triticale pedigrees) used in Table 1 but not defined.

Abbreviation	Explanation
BALBO	Rye cultivar
CENT	Centeno = rye
CENTENO ALTO	Tall rye
CENT BULK	Rye bulk
MERCED	Rye cultivar
PROL	Prolific rye
SNOOPY	A dwarf rye selection from Gator Rye
SPY	Snoopy rye
WRC 31	World Rye Collection 31

Table 10. *Released triticale* cultivars having CIMMYT and/or INIA, Mexico, germplasm in their pedigrees.

Name	Abbrev.	KT	Pedigree	Cross No. & Selection	Year	Country
ALAMOS 83	ALM	S	CHIVA"S"	X-24551-8Y-3M-1Y-0M	1983	MEXICO
ARABIAN	ABN	S	M2A	X-2802-38M-5M-6M-6M-0Y	1981	PORTUGAL
ARMADILLO	ARM	S	TCL DUR "GHIZA"/TCL DUR "CRLT" /3/TCL PERS /TCL DUR//TCL DIC/TCL PERS-outcrossed to Breadwheat	X-308	1979	PORTUGAL
BACUM	BCM	S	M2A	X-2832-24N-3M-7M-4M-0Y	1981	PORTUGAL
BEAGLE	BGL	C	UM"S"/TCL BULK	X-1530-A-12M-5N-1M-0Y	1981	PORTUGAL
BEAGLE 82	BEAGLE82	C	BGL"S"	X-1530	1982	FLORIDA,USA
BORBA-1	BORBA-1	C	BOK	X-15673-A-1Y-2Y-1M-0Y	1984	PORTUGAL
BR-1	BR-1	S	= PANDA"S" = PFT 766	X-8386-D-2Y-0M-101Y-101B-107Y-0Y	1984	BRAZIL
CABORCA 79	BURA	S	M2A/IRA	X-8417-E-1Y-7M-3Y-0Y	1979	MEXICO
CALBUCO-INIA	?	?	DRIRA//INIA/ARM/3/M2A	TT. 210-1t-t-9t	1984	CHILE
CANANEA 79	CAN	S	M2A = MAPACHE	X-2802-F-12M-1N-1M-0Y	1979	MEXICO
CARMAN	CARMAN	C	BGL"S"	X-1530-A-12M-5N-1M-0Y	1980	WINNIPEG
CEP-15 BATOVI	CEP-15	S	= PANDA"S" = TCEP 77134	X-8386-D-2Y-0M-110Y-103B-109Y-1Y-1M-100Y-0Y	1984	BRAZIL
COOROWG	CRG	S	IA	X-1648-5N-2M-0Y-2B-0Y	1980	S-AUSTRALIA
CURRENCY	CNY	C	M1A/BGL"S"	X-15552-33M-2Y-2Y-1M-0Y	1983	S-AUSTRALIA
DUA	DUA	S	M2A	X-2802	1980	AUSTRALIA, NSW
ERONGA 83	ERONGA	C	JLO 159	X-2129	1983	MEXICO

Table 10. (continued)

Name	Abbrev.	XT	Pedigree	Cross No. & Selection	Year	Country
FLORIDA 201	?	?	BGL/M2A	X-15671-FP7	1985	FLORIDA,USA
IAPAR 13 ARAUCARIA	IAPAR 13	S	=TPOL 6432 = PANDA"S"/RM	X-36517-613-H-0Y	1984	BRAZIL
JUAN	JUAN	C	JLO 168	X-21295	1984	CAL,USA
JUANILLO 86	JLO 86	C	DRIRA//KISS/ARM"S"	X-21295	1985	TUNISIA
JUANILLO 97	JLO 97	C	DRIRA//KISS/ARM"S"	X-21295	1985	TUNISIA
KARL	KARL	S	M2A =ABM"S"	X-2802-38M-5M-6M-6M-1Y-1M-0Y	?	N.DAKOTA,USA
KRAMER	KRAMER	S	M2A = MP	X-2802-F-12M-1M-1M-1M-0Y	?	N.DAKOTA,USA
LONQUIMAY-INIA	?	?	M2A*2//TJ/IRA	X-39348-1Y-2t-1t	1984	CHILE
MANIGERO	MAN	S	M2A	X-2802	1979	ESPANA
MAPACHE	MPE	S	M2A	X-2802-F-12M-1M-1M-0Y	1981	PORTUGAL
MEXITOL 1	MEXITOL 1	?	selection from an F2 population of winter Triticale sent to Bulgaria	?	1978	BULGERIA
MIZAR	MZR	S	M2A	X-2802	1979	ITALY
MONSANTO	MONSANTO	S	M2A	X-2802-70M-3M-1M-2M-0Y	1983	PORTUGAL
MORRISON	MORRISON	S	TJ/IRA	X-13896-D-100Y-102B-100Y-100-17M-0Y	1985	ALABAMA,USA
NIAB-T183	NIAB-T183	S	NIAB 77/NIAB 103/M2A	?	1982	PAKISTAN
NINGADHU	NGD	C	DRIRA SEL	X-7110	1980	AUSTRALIA
OAC DECADE	?	?	M2A//27-4/320	?	?	ALB,CANADA
OAC TRIWELL	?	C	BGL"S"	X-1530	1980	GUELPH
OCEPAR-1	OCEPAR-1	C	= DELFIN"S"	X-15490	1984	BRAZIL

Table 10. (continued)

Name	Abbrev.	KT	Pedigree	Cross No. & Selection	Year	Country
OCEPAR-2	OCEPAR-2	C	= ITOC 8432 = TJ/BGL'S'	X-16134-35Y-1Y-1M-1Y-1B-0Y	1984	BRAZIL
SALVO	SALVO	?	M2A-274/320'7680	?	?	POLAND
SAMSON	SAM 145	C	RAM	X-12257-2N-0M	1984	AUSTRALIA
SATU	SATU	S	M2A	X-2802	1979	AUSTRALIA, NSW
SISKIYOU	C	?		UC 8825	1977	CALIFORNIA
T-50	?	?		?	1979	KENYA
T-65	?	?		?	1979	KENYA
TL 419	TL 419	?	?	?	1982	PUNJAB, INDIA
TOORT	TOORT	S	KLA/CIM	?	1984	AUSTRALIA, VICT
TOWAN	TOWAN	S	IA	?	1981	AUSTRALIA, VICT
TRITICALE	TRITICALE	S	M2A	X-2802-38N-3M-3N-0N	1983	TUNISIA
TYALLA	TLA	S	M2A	X-2802	1979	AUSTRALIA, VICT
VENUS	VENUS	C	SEAGLE'S'	X-1530-A-12M-5N-1M-1Y-0M	1981	AUSTRALIA
WELSH	WELSH	S	UM2038	X-1648	1978	CANADA
YOREME 75	YE	S	M2A	X-2802-38N-3M-7M-5M-0Y	1975	MEXICO

* KT =karyotype C = Complest type S = Substition type ? = Unknown
'S' = Sib or Sister "R" = Reselection

Table 11. Released triticale cultivars having origins other than CIMMYT and/or INIA, Mexico.

Name	Year	Country
Ascret	1982	Spain
Badiel	1981	Spain
Cachurulu	1969	Spain
Councill	1979	USA
Growquick	1977	Australia
Roboliot	1984	France
Rosner	1969	Canada
Triticor	1984	France

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