

Semidwarf
**Bread
Wheats**

Names; Parentage;
Pedigrees; Origin



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Introduction

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

Each year, CIMMYT makes thousands of bread wheat crosses and generates hundreds of advanced lines. These materials are distributed annually to national programs by way of our international nursery system; about 40 nurseries consisting of advanced yield trials, screening nurseries and F₂ segregating populations are distributed to over 200 cooperators around the world. National programs are free to use the germplasm in these nurseries in any way that best suits their needs. Options range from crossing with local varieties to placing entries directly into multiplication for eventual release as varieties. The reader should note that CIMMYT *does not* release nor name varieties; that is the right and responsibility of cooperating national programs, and each national program has its own system for naming released cultivars. CIMMYT does give names to its advanced breeding lines, and our system for differentiating among these lines currently utilizes the names of land birds only. At one time, however, the names of mountains, lakes, rivers, islands and certain phoenetic combinations were used; some of these earlier names remain in use today.

This bulletin contains a compilation of all semidwarf bread wheat cultivars and advanced lines produced by CIMMYT and by the Mexican National Institute of Agricultural Research (INIA); it also contains the names and pedigrees of cultivars with CIMMYT parentage that have been released since 1962 by cooperating national programs. Our purpose in publishing this bulletin is to facilitate the exchange of more exact information among wheat researchers working with these materials, and to assist them in their note-taking and record-keeping activities.

With the publication of this revised 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 wheat-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 F₁ 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

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 (Table 3), followed by a cross number. After the cross number, there is either a letter or number-letter combination. For top and double crosses, a letter is assigned to each plant selected in the F₁ generation. In number-letter combinations, the number identifies the individual plant and the letter indicates the location of selection (see Table 4). Examples of each are presented at the top of the next page.

Type of Cross	Cross Number	Plant Selection and Location in each Generation					
		F ₁	F ₂	F ₃	F ₄	F ₅	F ₆
Simple (variety x variety)	CM-1162	—	2Y	1M	1Y	0M	
Top (F ₁ x variety) and Double (F ₁ x F ₁)	CM-33027	F	15M	500Y	0M	87B	OY

Because of the large number of crosses made annually by CIMMYT and cooperating institutions, this bulletin requires updating and revision at least every two years to accommodate additional entries. We welcome contributed information and suggestions designed to make this compilation more comprehensive and useful to wheat researchers the world over.

Table 1. Semidwarf bread wheat cultivars and advanced lines produced by CIMMYT and/or INIA, Mexico, as well as cultivars of CIMMYT parentage that have been released since 1962 by cooperators in collaborating countries

Name	Abbrev.	Cross	Pedigree	Year	Country
AHOME S 70	AH	=CNO"S"	II19957	1970	Mexico
ABU GHRAIB#3	AGB	=MARCOS JUAREZ INTA "S"	II19975		Iraq
ALDAN	ALDAN	MAYA"S"/4/KLRE/2*SON64// INIA66/3/CNO/5/N//STP/Y50	CM34513	1977	Mexico
ALMANSOR		E4870/C306//M5392/666.5/3/ BB//CC/INIA66	CM22099	1982	Portugal
ALONDRA	ALD	D6301/NAI60//WRM/3/CNO*2/CHR =ICA SUSATA =ALONDRA 4546 (ML)	CM11683	1974 1982 1980	Mexico Colombia Brazil
ANAHUAC 75	ANA	=JUPATECO 73"S"	II30842	1975	Mexico
ANI	ANI	PAKF ₄ 6313/3/TOB/CTFN//BB/4/ EMAN/ON//CAL/5/MAYA"S"	CM26346	1980	Mexico
ANTBIRD	ANB	TOB"S"/3/CNO/JAR//KVZ	CM20707	1983	Mexico
ANTIZANA	ANT	CNO"S"/GLL	II27829	1976	Ecuador
ANZA	ANZA	LR/NI0B//3*AN _E =MEXICANI =W 15 =KARAMU =T4	II8739-4R-1M-1R	1973	USA Sudan Australia New Zealand South Africa

Name	Abbrev.	Cross	Pedigree	Year	Country
		=SNA 1			Chile
		=MOGHAN 1			Iran
APACHE M 81	APA	PJ/GB55/3/II12350"S"/ON//	II40326-10M-1T-100M-OT	1981	Mexico
		RQ"S"/4/SF ₂			
ARZ	ARZ	MAYO54 _E /LR64//TAC"S"/3/ LR64//TZPP/Y54	II21419-288	1973	Lebanon
AZTECA 67	AZ	=CNO"S"	II19957-18M-1Y-3M-9Y	1967	Mexico
BAJIO 66	BJ66	SON64A//TZPP/NAI60	II18889-4M-1Y-1M-3Y	1966	Mexico
		=JARAL 66		1966	Mexico
		=LEONES INTA		1974	Argentina
BAJIO 67	BJ67	TZPP/SON64A	II19021-4M-3Y-102M-100Y-102C-1Y	1967	Mexico
		=RED RIVER 68		1968	USA
		=TOBARI 66		1966	Mexico
		=PEAK		1971	USA
BANANAQUIT	BNQ	MO/4/MPLM//CNO"S"/7C/3/CC	CM32556	1977	Mexico
BAYA	BAYA	TZPP//IRN46/CNO/3/PTR/4/NAC	CM42374	1979	Mexico
BLUEBIRD	BB	CNO"S"//SON64/KLRE/3/8156	II23584	1969	Mexico
		=BB#1=NURI 70		1970	Mexico
		=BB#2=YECORA 70		1970	Mexico
		=BB#3=SARIC 70		1970	Mexico
		=BB#4=CAJEME 71		1971	Mexico
		=PARI 73		1973	Pakistan

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
		=PROBRED		1974	USA
		=QUIMORI 79		1979	Bolivia
		=SAKHA 8		1976	Egypt
		=SANDAL 73		1973	Pakistan
		=GWEBI			Rhodesia
		=YECORA ROJO		1975	USA
BLUEJAY	BJY	TZPP/PL//7C	CM5287	1976	Mexico
		=NACQZARI 76		1976	Mexico
		=JAHUARA M 77		1977	Mexico
		=HUEQUEN INIA		1982	Chile
BLUE SILVER	BLS	II54-388/AN/3/YT54/N10B//LR64	II18427		Pakistan
		=SONALIKA		1967	India
BLUJETIT	BLT	TOB"S"/NAPO//CC/INIA66/3/CHA	CM5541	1976	Mexico
BOBITO	BBT	CNO/8156//TOB/CNO/3/ INIA66"S"/II20350	II38837	1974	Mexico
BOBOLINK	BOBO	7C/3/LR64/INIA66//INIA66 /BB/4/TOB/8156 (R)	CM5349	1977	Mexico
BOLILLO	BLO	PI/GLL/3/NR//FLR/CNO	CM8639	1974	Mexico
BOBWHITE	BOW	AU//KAL/BB/3/WOP"S" =SARHAD 83	CM33203	1977	Mexico
		=BOBWHITE #1	CM33203-K-10M-7Y-3M-2Y-1M-0Y	1983	Pakistan
BOLSENA	BOS	WE/3/LR64/INIA66//INIA66/ BB/4/7C//TOB/CNO"S"	CM8625	1977	Mexico

Name	Abbrev.	Cross	Pedigree	Year	Country
BONANZA	BON	=CNO"S"	II19957	1969	USA
BOUNTY 208	BTY208	=CNO"S"	II19957	1973	USA
BOUNTY 309	BTY309	CTFN/8156 (R) /3/CHR//TT/ SON64/4/FKN	II25753	1974	USA
BROADBILL	BBL	CMT/MO//TRM	CM43381	1983	Mexico
BROCHIS	BCH	CNO/BB//CDL/4/7C/3/ LR64/INIA66//INIA66/BB	CM5872	1974	Mexico
BUCKBUCK	BUC	BY/MAYA"S"/4/BB// HD832.5.5/ON/3/CNO/PJ =CIANO T 79 =IMURIS T 79 =CRISTINA	CM31678	1977	Mexico
				1979	Mexico
				1979	Mexico
				1983	Peru
BUCKY	BY	NAR59/PJ/3/PI//KLAT/NAPO	II21386	1973	Ecuador
BUCKY NANDU	BNDU	INIA66"S"/SOTY			Argentina
BUHO	BUHO	SR/3/LR64/INIA66//INIA66/BB	CM14040	1973	Mexico
BUITRE	BUI	L.S.3.1./PI//INIA66/3/ CC/INIA66	II28867	1971	Mexico
BULBUL	BUL	PI/FROND/3/PI/MZ//MKP	PK2858-7A-3A-4A-0A	1977	Pakistan
BUNTING	BUN	TOL73/MON"S"	CM35422	1977	Mexico
BUTED	BUT	TLI/CHA#2//PCI"S"	CM31070	1977	Mexico
CAJEME F 71	CJ	=BLUEBIRD #4	II23584-26Y-2M-3Y-2M-0Y	1971	Mexico
CALIDAD	CAL	TZPP/SON64A/TZPP//AN _E =UTIQUE	II22429	1968	Mexico
				1971	Tunisia

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
CANARIO	CAN	HK/38MA//2*RFN/908/3/FN/4/YR	CM2097	1974	Mexico
CANASTERO	CNR	PJ//CNO/7C/4/CNO/INIA66/BB/3/ PCI/5/MRNG/6/ALD"S"//YR/TRF"S"	CM58446	1983	Mexico
CARDINAL	CDL	ZA75/JAR"S"//8156 (R)	II27105	1970	Mexico
CARPINTERO	CARP	RQ"S"/PAL#2/3/KLPE/RAF//2*SX	II30724	1973	Mexico-Brazil
CARTHAGE	CRT	NAPO/TOB"S"//8156	II28071-7M-3Y-7M-0Y	1975	Tunisia
		=PICHON"S"		1973	Mexico
CHANATE	CHA	CNO"S"/PJ//CNO"S"/7C	II26265	1971	Mexico
		=CHA#1 = SAKARYA		1974	Turkey
		=CHA#2 = SALAMANCA 75		1975	Mexico
CHAPPARAL	CRL	=CNO"S"	II19957		USA
CHAPINGO 74	CH74	FRATERNAL SELECTION		1974	Mexico
CHASQUI INIA		CC/INIA66//TOB/8156/3/CNO"S"	CM4264-23Y-2M-0Y	1982	Chile
CHAT	CHAT	KVZ/TI//TITO"S"	CM33090	1977	Mexico
CHIROCA	CHRC	SD 648.5/8156/3/CHR//SON64/ KLRE/4/BB/CAL/5/ZBZ	CM8963	1975	Mexico
CHOLI	CLI	21931/CH53//2*LR64/3/8156 /4/NAR59"S"	II21515-1P-1P-3P-5M-0Y	1973	Chile-Mexico
		=PIMA 77		1977	Mexico-Chile
CHORCHA	CHO	TOB"S"/NAR59//INIA66"S"/NAPO	II25499	1973	Mexico
CHHOTI LEENA	CHL	LR64"S"/HUAR	II15929-1M-4R-2M	1967	India
CHOVA	CVA	GLL/YR RESEL (B) /3/AJ//KAL/BB	CM34603	1981	Mexico
CHUKAR	CKR	PTS/3/TOB/CTFN//BB/4/ BB/HD832.5.5/CN	CM20769	1980	Mexico

Name	Abbrev.	Cross	Pedigree	Year	Country
CNO67	CNO	PI/CHR"S"//SON64	II19957-18M-1Y-3M-9Y	1967	Mexico
		=HOME S 70		1970	Mexico
		=AZTECA 67		1967	Mexico
		=BONANZA		1969	USA
		=BOUNTY 208		1973	USA
		=CHAPARRAL			USA
		=COLANO		1971	USA
		=LAPACHO		1974	Argentina
		=WORLD SEEDS 1651		1969	USA
CIANO T 79	CNO79	=BUCKBUCK"S"	CM31678-R-4Y-2M-21Y-0M	1979	Mexico
CIGUEÑA	CGÑ	SON64*2//TZPP/TZPP/Y54/3/ AN64A/4/2*FR//Y/KT	II21406		Mexico
		=CUMHURIYET		1974	Turkey
CINTO	CTO	L8230.54//2*FR/KAD//GB /3/PATO(B)	CM20447	1977	Mexico
CLEOPATRA 74	CLEO	BB/3/2*INIA66"S"/ NAPO//II20350/4/F ₂	CF258-3OR-4M-OT	1974	Mexico
		=JUPATECO 73"S"	II30842-58R-1M-4Y-0M	1975	Mexico
COLANO	CLN	=CNO"S"	II19957	1971	USA
COMO	COMO	OR2"S"//SD648.5/8156(R)	CM4756	1977	Mexico
COQUEÑA	COQ	PATO/4/JAR/NAPO/3/ LR64//TZPP/AN _E	CM1020	1973	Mexico
		=VEERY #3	CM33027-F-12M-1Y-6M-0Y	1982	Paraguay

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
CORRECAMINOS	CC	SON64/Y50 _E //GTO	II19792	1971	Mexico
COWBIRD	COW	KLAT//INIA66/BB/4/ NP876/RJ//CAL/3/BB	CM16716	1975	Mexico
CRISTINA		=BUCKBUCK"S"	CM31678-R-4Y-2M-21Y-0M	1983	Peru
CROW	CROW	FR316/3/MCM/KI//Y50/4/ ZA75/5/BJY"S"	CM40457	1980	Mexico
CUCKOO	CUC	7C/ON//INIA66/BMAN =HARAMOUN	II28428-8Y-1M-1Y-0M	1975 1976	Mexico Lebanon
CUERVO	CVO	CI7800/BZA//TZPP/SON64A	E67-2789	1973	Ecuador
CUMHURIYET	CHY	=CIGUEÑA"S"	II21406-6-2-0Y	1974	Turkey
DELICIAS F 81	DLC	INIA66/NAPO//JAR	II28054-92M-1R-1M-1R-0M	1981	Mexico
DIAMANTE INTA		SON64/TZPP//NAI60/3/NAR59	II21872-9T-2B-3T-2B	1974	Argentina
DICKCISSEL	DCK	PIN"S"//BB/CAL/3/VAN"S"	CM31099	1977	Mexico
DODO	DODO	COC/5/PN/TH//K58N/3/ MY54/N10B//AN"S"/4/ TT/SON64//BZA/6/FR316/3/ MCM//KI/Y50/4/ZA75/5/BJY"S"	CM43956	1981	Mexico
DOUGGA	DGA	KLPE/RAF//2*8156(R)	II23997-4Y-100M-300Y	1974	Tunisia
DOVE	DOVE	EMU"S"/MFS//KAL/BB	CM38199	1979	Mexico
DRONGO	DNG	CNO"S"/SOTY//TOB"S"/3/2*TOB/ NAPO//INIA66"S"/NAPO/4/MON"S"	CM37754	1979	Mexico

Name	Abbrev.	Cross	Pedigree	Year	Country
ELRINA	ERN	CC/INTA66"S"			South Africa
EMU	EMU	TOB"S"/NAPO//NO/ERA/3/BB/GLL	CM8327	1974	Mexico
ERECT RAF	ERAF	TZFP/SON64//NAPO/3/TOB/ 8156(R)	CM1162-2Y-1A-2Y-0M	1973	Mexico
ERECT RGA	ERGA	TZFP/SON64//NAPO/3/TOB/ 8156(R)	CM1162-2Y-1A-1Y-0M	1973	Mexico
EUREKA	EE-U	ERA*3/CC//CNO/SON64	CM10656	1978	USA
FATH	FATH	CNO"S"/GLL	II27829-19Y-2M-5Y-1M-0M	1973	Tunisia
FINK	FINK	BON/YR/3/F35.75//KAL/BB	CM41860	1983	Mexico
FISERECT 3	FERC 3	ZA75/3/TOB/CFN//BB	CM6531-250M-7YF-0MF	1973	Mexico
FISERECT #4A	FERC	ZA75/3/TOB/CFN//BB	CM6531-250M-6Y-2BF-0YF	1973	Mexico
FLICKER	FLK	WE//CNO"S"/NO/3/ZBZ	CM8954	1975	Mexico
FLYCATCHER	FCT	JUP/EMU"S"//GJO"S"	CM43598	1983	Mexico
FYNEN	FYN	ZP"S"/4/TP//CNO/NO/3/ BB/CNO/5/YD"S"/BLT	CM31622	1977	Mexico
GALLO	GLL	WT _E *3/NAR59*2//SE/3/JAR"S"	II22529	1969	Mexico
GAMTOOS		=VEERY #3	CM33027-F-12M-1Y-6M-0Y	1983	South Africa
GAVILAN	GV	CNO"S"/NO//CC/INTA66	II34167	1973	Mexico
GAVIJAN	GV-P	=PAVON F 76	CM8399-D-4M-3Y-1M-1Y-1M-0Y	1982	Peru
GEM	GEM	908/FN//CJ54	II5068-5H-1H-1H	1964	Kenya
GENARO F 81	GEN	=VEERY #3	CM33027-F-12M-1Y-6M-0Y	1981	Mexico
GLENNSON M 81	GLEN	=VEERY #1	CM33027-F-8M-1Y-8M-1Y-2M-0Y	1981	Mexico

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
GOLDFINCH	GOF	KT54 _E /KT54B//NAR59/DRC/3/ 8156/PJ	II23561-E ₁	1975	Mexico
		=SANNINE		1975	Lebanon
GOSHAWK	GHK	BB/KAL//ALD ^o S ^o /3/Y50 _E /3*KAL//EMU ^o S ^o	CM38795	1979	Mexico
GRAJO	GJO	TOB/CNO ^o S ^o //TOB/8156 (R) /3/ CAL//BB/CNO ^o S ^o	CM5816	1973	Mexico
GROUSE	GRS	KL.H686.F2600/ SR//TOB/CNO ^o S ^o	CM30986	1979	Mexico
GUAJOLOTE	GTE	CJ54/36896//GB54/3/GB56 /4/CHR/5/CC	II22888	1967	Mexico
GUASAVE F 81	GSV	KVZ//KAL/BB/3/BON	CM33202-E-1M-2Y-0M	1981	Mexico
GWEBI	GWB	=BLUEBIRD ^o S ^o	II23584	1975	Rhodesia
HAHN	HAHN	CEB148/XA ^o S ^o //7/HK/MDA38/4/ 4777/3/REI//Y/KT/5/YR/6/TUC	CM33682	1980	Mexico
HARAMOUN	HMN	=CUCKOO	II28428-8Y-1M-1Y-1M	1976	Lebanon
HARRIER	HAR	CNO ^o S ^o /NO/3/C273//NP875/ E853.5.8/4/7C/5/HOR ^o S ^o	CM33435	1977	Mexico
HARTOG		=PAVON F 76 ^o S ^o	CM3399-D-4M-4Y-2M-2Y-0M	1983	Australia
HEKLA		TOB/CNO ^o S ^o //TOB/8156 (R) /3/ CAL//BB/CNO ^o S ^o	CM5816	1977	Mexico
HERMOSILLO 77	HER	=MAGPIE ^o S ^o	CM20668-D-4Y-4M-1Y-0Y	1977	Mexico
HOOPEE	HPO	KVZ//CNO/PJ	SNM1285	1983	Mexico

Name	Abbrev.	Cross	Pedigree	Year	Country
HORK	HORK	HOP/RON//KAL	CM8874	1974	Mexico
		=HUASTECO M 81		1981	Mexico
HUACAMAYO	HUAC	YR//SON64/NT5207.85/3/ CNO"S"/7C//GTO	CM8671	1974	Mexico
HUASTECO M 81	HTC	=HORK"S"	CM8874-K-1M-1Y-1M-1Y-0M	1981	Mexico
HUEQUEN INIA		=BLUEJAY"S"	CM5287-J-1Y-2M-2Y-3M-0Y	1982	Chile
ICA SUSATA		=ALONDRA"S"	CM11683	1982	Colombia
ICTA SARA 82	SARA	TAST/4/TP//CNO/NO/3/ CNO"S"/7C/5//JUP	CM38089-G-1Y-4M-1Y-3M-1Y-0Y	1982	Guatemala
IMURIS T 79	IMU	=BUCKBUCK"S"	CM31678-R-4Y-2M-5Y-0M	1979	Mexico
INDUS 66	IND	=KALYANSONA"S"	II8156	1966	Pakistan
INIA F 66	INIA66	LR64/SON64	II19008-83M-100Y-100M-100Y-100C	1966	Mexico
		=NOROESTE 66		1966	Mexico
		=NORTEÑO 67		1967	Mexico
		=U.P. 301		1968	India
JAHUARA M 77	JAH	=BLUEJAY"S"	CM5287-J-1Y-2M-1Y-0M	1977	Mexico
JARAL 66	JAR	=BAJIO 66"S"	II18889-101M-1R-3C-4Y	1966	Mexico
JILGUERO	JI	CNO"S"/7C//CNO"S"/RJ	II25917	1971	Mexico
		=PORTOLA 76CR		1976	USA
JUNCO	JUN	BB/GLL//CARP/3/PVN"S"	CM33483	1977	Mexico
JUNGFRAU	JUG	MEF"S">//MY54/N10B/3/AN"S"	II20794	1977	Ecuador
JUPATECO F 73	JUP	II12300//LR64/8156/3/NOR	II30842-31R-2M-2Y-0M	1973	Mexico
		=ANAHUAC 75		1975	Mexico
		=COORAQUE 75		1975	Mexico

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
KALYAN		=KALYANSONA"S"	II8156		India
KALYANSONA	KAL	PJ"S"/GB55	II8156	1967	India
		=SIETE CERROS		1966	Mexico
		=SUPER X		1966	Mexico
		=KALYAN			India
		=PV18A		1965	India
		=MEKIPAK		1965	Pakistan
		=SIDI MISRI 1			Lybia
		=INDUS 66		1966	Pakistan
		=LAKETCH			Ethiopia
		=MIVHOR 177			Israel
KARAMU	KAR	=ANZA	II8739-4R-1M-1R		New Zealand
KATHADIN	KA	RON/CHA//BB/NOR	CM5484	1979	Mexico
KAVKO	KVK	KVZ/3/CNO/CHR//ON	SE375	1979	Turkey/Kenya
KEA	KEA	TZPP*2/AN64//INIA66/3/CNO/ JAR//KVZ	CM21335	1981	Mexico
KINGLET	KLT	KVZ/TI/3/MAYA"S"//BB/INIA66	CM33089	1979	Mexico
KLEIN ATALAYA	KLAY	NO/BB//CC/WE	CM12263	1981	Argentina
KLEIN CARTUCHO	KLCA	JUP/3/PJ/WRT//CAL	CM28224	1982	Argentina
KOEL	KOEL	BB/GLL//Y50 _E /3*KAL/3/ LFN//HD832/BB	CM34574	1979	Mexico

Name	Abrevv.	Cross	Pedigree	Year	Country
LAKETCH	LKT	=KALYANSONA "S"	II8156		Ethiopia
LAPACHO	LPC	=CNO"S"	II19957-18M-1Y-3M-9Y	1974	Argentina
LECHUZA	LZA	TOB"S"/8156//CC/INIA66"S" /3/JAR"S"	CM5629-A-1Y-1M-0MF-1Y	1973	Mexico
LENANA	LEN	Y48/KT48	II2589-9Y-6C-1Y-2C	1963	Kenya
LEONES INTA	LNI	=BAJIO 66"S"	II18889-1R-3C-1T-2B-0J	1974	Argentina
LERMA ROJO 64	LR64	Y50/N10B//L52/3/2*LR	II8724-8Y-1C-1Y	1964	Mexico
LIMA 1	LIMA	=VEERY #3	CM33027-F-12M-1Y-6M-0Y	1982	Portugal
LIRA	LIRA	KVZ/TRM//PIM/ANA	CM43903	1980	Mexico
LIESBECK	LIE	CNO"S"/INIA66"S"		1976	South Africa
LOERLE		=VEERY #5"S"	CM33027	1982	Zambia
LUCANIA	LUN	NAR59/3/PJ/GB//TZPP/KNIT #2	II22339	1977	Mexico
LYALLPUR 73	LLP	BB/NOR	II27100-307M-100A-0A	1973	Pakistan
MADEIRA	MAD	ALD"S"/4/KAL/SKA//CNO"S"/ INIA66"S"/3/CNO/CHR	CM32586	1977	Mexico
MAGPIE	MGP	JAR/NAPO/3/LR64//TZPP/3*AN _E /4/BB/NOR//CNO"S"/7C/3/CAL =HERMOSILLO 77	CM20668-D-4Y-4M-1Y-0Y	1976	Mexico
MAHONE F 81	MHE	=NIPIGON"S"	CM8972-9M-1M-1Y-0M(1-53B)	1981	Mexico

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
MAIPO	MAI	LR64/SON64//TZPP/AN64	II22389	1977	Mexico
MARCOS JUAREZ INTA	MJI	SON64/KLRE =SOLTANE =ZAAFRAHE =ABU GHRAIB #3	II19975-68Y-1J-4Y-1J-0B	1971 1972 1971	Argentina Tunisia Tunisia Iraq
MAYA 74	MAYA	CNO"S"/GLL	II27829	1974	Guatemala
MAYO64	MY64	MAYO54/N10B//2*Y54	II8481-8C-2Y-5C-2Y	1964	Mexico
MEISE	MEI	R37/GHL121/3/ CNO/INIA66"S"//HD832/0N	SWM4585	1983	Mexico
METALTAIL	MLT	ORE F ₁ 158/FDL//KAL/BB/3/NAC	CM47634	1983	Mexico
MESABI	MES	WAL/3/CC/8156//CNO/4/7C	CM5513	1977	Mexico
MEXICANI	MXC	=ANZA	II8739-4R-1M-1R		Sudan
MEXIFEN	MFN	SON64//6*SK _E /3*AN _E	II18903-17M-2R-3C		Chile
MEXIPAK	MXP	=KALYANSONA"S"	II8156	1965	Pakistan
MILLALEAU INIA		=VEERY #3	CM33027-F-12M-1Y-6M-0Y	1982	Chile
MINIVET	MNV	BB/CNO//INIA66/SOTY/3/SPRW"S" /4/PVN"S"	CM37705	1979	Mexico
MIRLO	MRL	CNO/7C//KAL/BB/3/PCI"S"	CM12986 and CM12987	1981	Mexico
MIVHOR 177	MHR	=KALYANSONA"S"	II8156		Israel
MOCHIS 73	MO	SON64/KLRE//BB"S"	II26502-8Y-9M-1T-1M-5S-0M	1973	Mexico
MOGHAN 1	MGN	=ANZA	II8739-4R-1M-1R		Iran

Name	Abbrev.	Cross	Pedigree	Year	Country
MONCHO	MON	WE/GTO//KAL/BB	CM8288	1974	Mexico
MOR	MOR	TRM//KAL/BB	CM37130	1980	Mexico
MULEGE F 81	MLE	TOB/EMAN//BB/3/CDL/4/SX	CM8972-9M-1M-5Y-0M	1981	Mexico
MUSALA	MUS	LEE/KVZ/3/CC//RON/CHA	CM16780	1977	Mexico
MYNA	MYNA	ND/WN//LEE/EN/3/N/4/TI RESTL.	SWM4589	1979	Mexico
NACCOZARI F 76	NAC	=BLUEJAY"S"	CM5287-J-1Y-2M-2Y-3M-0Y	1976	Mexico
NADADORES M 63	NAD	PJ/2*Y54	II8501-A-10M-6R-1M-2Y	1963	Mexico
NARRO	NARRO	BB/INIA66//NAPO/3/II20350	II38620-102S-1M-6R-0M	1974	Mexico
NEELKANT	NKT	HD1220/3*KAL//NAC	CM40454	1980	Mexico
NIPIGON	NIP	TOB/EMAN//BB/3/CDL/4/SX	CM8972	1977	Mexico
		=MAHONE F 81		1981	Mexico
NOROESTE 66	NO	=INIA 66"S"	II19008-52M-4Y-4M-2Y	1966	Mexico
NORTEÑO 67	NOR	=INIA 66"S"	II19008-52M-6Y-3M-2Y	1967	Mexico
NURI F 70	NR	=BLUEBIRD #1	II23584-15Y-6M-0Y	1970	Mexico
ORIOLE	ORI	MAYA"S"//PV18/CNO/3/CDL	CM26118	1977	Mexico
ORIZABA	ORZ	CNO"S"/7C//CC/TOB	II25918	1977	Mexico
OSPREY	OSP	NAPO/CDL//SAM/TOR	CM8701	1975	Mexico
OWL	OWL	GTO/7C//BB/CNO/3/BUHO/4/	CM34704	1977	Mexico
		BLT"S"/SJM			
PAJONAL	PJN	K1.H645.Y48000/JUP//KAL/BB/6/	CM36090	1980	Mexico
		CNO//BB/GLL/4/167/3/S310/			
		PI//LR64/II18.47/5/GCN			

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
PAKISTAN 81	PAK 81	=VEERY #5"S"	CM33027-F-15M-500Y-0M-76B-0Y	1981	Pakistan
PALOMA	PL	PATO/3/LR64/SON64//NAPO	II25499	1972	Mexico
PAMIR	PAM	JAR/KVZ//YR	CM20839	1977	Mexico
PARI 73	PARI	=BLUEBIRD"S"	II23584-303M-0Y-11A-1A-1436	1973	Pakistan
PARULA	PRL	FKN/3/2*FR//KAD/GB/4/BB/CHA	CM25988	1981	Mexico
PATO	PATO	TZPP/SON64A//NAR59	II21974	1968	Argentina
PAVAO	PAVAO	BB/CAL	II30877-62M-3Y-1M-2Y-0M	1982	Brazil
PAVON F 76	PVN	VCM//CNO"S"/7C/3/KAL/BB	CM8399-D-4M-3Y-1M-1Y-1M-0Y	1976	Mexico
		=GAVILAN		1982	Peru
		=TOTORA IBTA 80		1981	Bolivia
		=PILANCHU IBTA 80		1981	Bolivia
		=VICTORIA		1982	Chile
		=HARTOG		1983	Australia
PFAU	PFAU	HORK"S"/YMH//KAL/BB	CM38212	1983	Mexico
PEAK	PEAK	=BAJIO 67"S"	II19021	1973	USA
PEEP	PEEP	CNDR"S"/4/RRV/WW15/3/ BJ"S"/2*ON//BON	CM36902	1979	Mexico
PENJAMO T 62	PJ	FKN/NLOB	II7078-1R-6M-1R-1M	1962	Mexico
PEREGRINE	PEG	CEB148/4/CNO"S"/INIA66"S" //LPN/3/TOB//KLPE/RAF	SWM1368	1979	Mexico
PEWEE	PEW	INIA66"S"/7C//MAYA"S"/3/ PCI"S"/TRM"S"	CM31630	1977	Mexico

Name	Abbrev.	Cross	Pedigree	Year	Country
PHEASANT	PSN	KAL/BB//CJ"S"/3/HORK"S"	CM32418	1980	Mexico
PHOEBE	PHO	CAL/KVZ//TRM	CM30831	1977	Mexico
PICHIHUILA	PCI	CNO"S"/GLL//KAL/BB	CM7652	1973	Mexico
PICHINCHI	PIN	JUG/EL//TIBA	II21263	1973	Ecuador
PICHON	PCH	NAPO/TOB"S"//8156 (R)	II28071	1973	Mexico
		=CARTHAGE		1975	Tunisia
PILANCHU IBTA 80		=PAVON F 76"S"	CM8399-D-4M-3Y-1M-0M(1-14)	1981	Bolivia
PIMA	PIMA	=CHOLI	II21515-1P-1P-3P-5M-0Y	1977	Mexico
PIPIT	PIP	55.1744//KAL/BB/3/SIS"S"	CM33155	1977	Mexico
PITIC 62	PI	YT54/N10B 126.1C	II7064-1Y-1H-1R-2M	1962	Mexico
POLLO	PLO	BB/GLL/3/CNO/SON64//BB	II35129	1975	Mexico
POPO	POPO	CNO/7C*2//CC/TOB	CM1679	1977	Mexico
PORTOLA 76CR	PTA	=JILGUERO"S"	II25917-13Y-1Y-0M(1-44D)	1976	USA
POTAM S 70	PTM	INIA66"S"/NAPO	II22402-6M-4Y-1M-1Y-0M	1970	Mexico
		=SAKHA 3			Egypt
PRECOZ PARANA	PPI	SON64A/KMIT #2	II18893-12P-3B-3P-1B-1T	1971	Argentina
INTA					
PROBRED	PBR	=BLUEBIRD"S"	II23584	1974	USA
PROSPUR	PSR	NAPO//TZPP/SON64A		1975	USA
PROTOR	PRT	TOB/CNO"S"	II24908-30M-3Y-3M-0Y	1975	USA
PV18A	PV18	=KALYANSONA"S"	II8156	1965	India

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
QUELELE	QL	WT/NAR59//TZPP/WT _E		1973	Ecuador
QUITAFEN	QFN	YT54//N10/3/B21/4/LD357//2*TC	II14540-1C-1Y-1C	1970	Chile
QUITIMORI 79		=BLUEBIRD*S"	II23584	1979	Bolivia
REDPOLL	RPO	TLI/YR*S"/3/BB/RON//MAXA*S"	CM31068	1977	Mexico
RED RIVER 68	RRV	=BAJIO 67*S"	II19021	1968	USA
RIGO	RIGO	SR/BON/4/36896/2*CJ54//YT54A /3/CC/8156//CNO	CM2510-H-7M-1Y-2M-3Y-0M	1974	Mexico
ROBIN-M	RON	JAR*S"/ZA75	II26787	1971	Mexico
ROMANY	ROM	CLT262//51/YT54A	II8582-9M-1R-2M-1R	1966	Kenya
ROQUE 73	RQ	SON64//6*SK _E /3*AN _E	II18883-6M-6R-11C-1Y	1973	Mexico
SAFED LERMA	SL	Y50//N10B/L52/3/LR64	II15444-118Y-2C	1967	India
SAGUAYO 79		BB/TOB/4/CNO/NO/3/C273// NP875-5-8	CM2699-59M-1Y-1M-2Y-0M	1979	Bolivia
SAJAME	SJM	FURY//CNO*S"/NO	CM4210	1977	Mexico
SAKA	SAKA	8156/NAD//BB/4/SON64//KLRE/3/ CNO/CHR//BB	CM5826	1973	Mexico
SAKARYA	SKY	=CHANATE #1	II26265-22Y-500M-301Y-2M-501Y-500M-0Y	1974	Turkey
SAKHA 3	SKH 3	=POTAM*S"	II22402		Egypt
SAKHA 8	SKH 8	=BLUEBIRD*S"	II23584	1976	Egypt
SALAMANCA 75	SLM	=CHANATE #2	II26265-22Y-300M-301Y-2M-501Y-500M-0Y	1975	Mexico
SALAMBO 80		PATO//CC//INIA66	CM1021-14BJ-4BJ	1980	Tunisia
SANDAL 73	SAN	=BLUEBIRD*S"	II23584-17Y-1A-0A	1973	Pakistan
SANNINE	SNIN	=GOLDFINCH	II23561-E	1976	Lebanon

Name	Abbrev.	Cross	Pedigree	Year	Country
SAPSUCKER	SAP	INIA66"S"/SOTY//CZHO	BR69	1975	Mexico
		=TESOPACO 76		1976	Mexico
SARHAD 83		=BOBWHITE"S"	CM33203	1983	Pakistan
SARIC F 70	SR	BLUEBIRD #3	II23584-26Y-2M-2Y-0M	1970	Mexico
SERI 82	SERI	=VEERY #5"S"	CM33027-F-15M-500Y-0M-87B-0Y	1982	Mexico
SERIC		=VEERY #5	CM33027-F-15M-500Y-0M	1983	Zambia
SHRIKE	SHR	GLL/TRM//PVN"S"	CM33489	1977	Mexico
SIETE CERROS	7C	=KALYANSONA"S"	II8156	1966	Mexico
SIDI MISRI 1	SMR	=KALYANSONA"S"	II8156		Lybia
SISKIN	SIS	BB/CNO"S"/3/NAD/CHR"S"//SR	CM5566	1976	Mexico
SNA 1	SNAL	=ANZA"S"	II8739		Chile
SOLSORT	SLS	CGR/3/PATO//BB/CNO	CM10712	1977	Mexico
SOLTANE	SOL	=MARCOS JUAREZ INTA"S"	II19975-68Y-1J-3Y	1972	Tunisia
SONALIKA	SKA	=BLUE SILVER"S"	II18427-4R-1M	1967	India
SONOITA F 81	SNI	TRM//KAL/BB	CM37130-15Y-1M-3Y-0M	1981	Mexico
SONORA 64	SON64	YT54/N10B//2*Y54	II8469-2Y-6C-4C-2Y-1C	1964	Mexico
SOTY	SOTY	SON64A//TZPP/Y54	II18888	1966	Mexico
SPARROW	SPRW	FN/MD//K117A/3/2*COFN/4/SON64	CM2182-5M-1Y-2M-3Y-0M	1974	Mexico
		/KLRE/3/CNO"S"//2*LR64/SON64			
SPINETAIL	SPT	OQT/AZ//IAS55/ALD"S"/3/ ALD"S"/NAPN/4/PJN"S"/ PEL SL 1276.69	CM58478	1983	Mexico

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
SUNBIRD	SNB	GJL/CUC"S"//KVZ/SX	CM34630	1979	Mexico
SUPER X	SX	=KALYANSONA"S"	II8156-1M-2R-4M	1966	Mexico
SWIFT	SWF	PJ/FURY//WOP"S"	CM33232	1977	Mexico
SYRIMEX	SRX	YT54A/N10B//3*LR64		1969	Syria
TALA	TALA	SON64//KLRE/MAS		1974	Argentina
TANAGER	TAN	SIS"S"/PVN"S"	CM30697	1977	Mexico
TANIT 80	TNT	TZPP/3/PATO//INIA66"S"/ NAPO/4/7C	CM5287-J-1Y-2M-2Y-3M-0Y	1980	Tunisia
TANORI F 71	TI	SON64/CNO"S"//INIA66	II25717-4Y-3M-1Y-0M	1971	Mexico
TANZANIA KORORO	TANK	=WREN-MEX"S"	II28895	1976	Tanzania
TECOLOTE	TL	E4830/C303//M5392/666.5		1973	India
TEETER	TTR	ORE F ₁ 158/FDL// MEF"S"/2*TIIBA/3/COC	CM37987	1979	Mexico
TESIA F 79	TSI	PL/3/INIA66/CNO//CAL/4/BJY"S"	CM30136-3Y-1Y-0M	1979	Mexico
TESOPACO 76	TES	=SAPSUCKER"S"	BR69-1Y-3M-3Y-0M	1976	Mexico
THORNBIRD	THB	IAS63/ALD"S"//GV/LV	F11915	1983	Brazil-Mexico
TITMOUSE	TIM	PL/3/INIA66/CNO//CAL/4/BJY"S"	CM30136	1977	Mexico
TITO	TITO	CHR/VCM//KAL/BB	CM8212-D-4M-0Y-0M-4M-5Y-4M-10Y	1974	Mexico
TOBARI 66	TOB	=BAJIO 67"S"	II19021-4M-3Y-102M-100Y-101C	1966	Mexico
TOLUCA 73	TOL73	INIA66"S"/NAPO//CNO	II28036-111M-1R-2M-1T-0M	1973	Mexico
TONICHI S 81	TONI	CAR422/ANA	SNM4610-2Y-20M-1Y-0M	1981	Mexico
TORDO	TOR	NAI60*2//TT/SON64/3/ LR64/SON64	H244.67-1Y-6B	1971	Mexico

Name	Abbrev.	Cross	Pedigree	Year	Country
TORIM F 73	TRM	BB/INIA66	II26591-1T-7M-0Y-55Y-0M	1973	Mexico
TOTORA IBTA 80		=PAVON F 76	CM8399-D-4M-3Y-1M-1Y-1M-0Y	1981	Bolivia
TOWHEE	TOW	CLI//RQ"S"/SOTY/3/SIS"S"/ PVN"S"	CM34709	1977	Mexico
TRIFON	TRF	YT48//K58/N/3/FR/KAD//GB /4/COU	F4-5Y-0M-2Y	1974	Mexico
TRUSH	TSH	BJY"S"/GJO"S"/4/MAI"S"/3/ BB//TOB/CNO	CM34742	1979	Mexico
TUCAN	TUC	BB/TOB/4/CNO/NO/3/ C273//NP876/E853.5.8	CM2699-12M-1Y-5M-2Y-4M-0Y	1974	Mexico
TUCUMAN		CAL/3/BB/5/KLPE/RAF//PJ/3/ CNO/4/NP876/BB	CM28224	1982	Argentina
TUTULI	TLI	MD//N/K117A/3/2*FR/KAD//GB	II19154-1E-1E-1E-1E	1973	Ecuador
TYRANT	TRT	DGA/BJY"S"	CM40610	1983	Mexico
T4	T4	=ANZA	II8739-4R-1M-1R	1975	South Africa
ULUCAK 75	ULC	CNO"S"/GLL	II27829-19Y-3M-5Y-0M	1975	Turkey
URES T 81	URES	=VEERY #2	CM33027-F-12M-1Y-4M-2Y-2M-0Y	1981	Mexico
UTIQUE	UT	=CALIDAD"S"	II22429-16M-1Y-4M-0Y	1971	Tunisia
U.P. 301	UP301	=INIA 66"S"	II19008	1968	India
VALDIVIA	VLD	TP//CNO/INIA66"S"/3/SR"S" /4/HORK"S"	CM30109	1977	Mexico
VANERN	VAN	NO/BB/3/CNO//NAD/CHR/4/7C	CM5375	1977	Mexico

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
VEERY	VEE	KVZ/BUHO"S"//KAL/BB	CM33027	1977	Mexico
		=VEERY #1 = GLENNON M 81		1981	Mexico
		=VEERY #2 = URES T 81		1981	Mexico
		=VEERY #3 = GENARO F 81		1981	Mexico
		= GAMTOOS		1983	South Africa
		= CORDILLERA		1982	Paraguay
		= LIMA 1		1982	Portugal
		= MILLALEAU INTA		1982	Chile
		=VEERY #4	CM33027-F-12M-1Y-10M-1Y-3M-1Y-0M	1981	Mexico
		=VEERY #5	CM3327-F-15M-500Y-0M	1981	Mexico
		= SERI 82		1982	Mexico
		= LOERIE		1982	Zambia
		= PAKISTAN 81		1981	Pakistan
		= SERIC		1983	Zambia
		= VIRI		1983	Tanzania
		=VEERY #6	CM33027-I-2M-1Y-1M-1Y-3M-0Y	1983	Mexico
		=VEERY #7	CM33027-F-15M-4Y-4M-3Y-2M-1Y-0M	1983	Mexico
		=VEERY #8	CM33027-F-12M-1Y-1M-1Y-1M-0Y	1983	Mexico
		=VEERY #9	CM33027-F-12M-1Y-12M-1Y-2M-0Y	1983	Mexico
		=VEERY #10	CM33027-F-3M-1Y-0M	1983	Mexico
VICAM S 71	VCM	INTA66"S"/NAPO	II22398-39M-1R-0Y-101M-0Y	1971	Mexico
VICTORIA M 81	VCT	=VULTURE"S"	CM36064-A-1M-5Y-0M	1981	Mexico

Name	Abbrev.	Cross	Pedigree	Year	Country
VICTORIA		=PAVON F 76"S"	CM8399-D-4M-3Y-0M	1982	Chile
VIREO	VRE	INIA66"S"/ON//INIA66/BB/3/COC	CM28235	1977	Mexico
VIRI	VIRI	=VEERY #5	CM33027-F-15M-500Y-0Y	1983	Tanzania
VOGA	VOGA	NAPO/CAL//ZBZ	CM8935-D-5M-3Y-3M-2Y-0M	1982	Portugal
VULTURE	VUL	YR RESEL(B)/TRF"S"//RSK/TRM	CM36064	1977	Mexico
		=VICTORIA M 81		1981	Mexico
WARBLER	WRB	MAYA"S"/3/KAL/BB//7C/NAD/4/ HORK"S"	CM39814	1979	Mexico
WOODPECKER	WOP	INIA66"S"/NAPO//2*CAL /3/PV18/CNO	CM15856	1975	Mexico
WORLD SEEDS 1651	WS1651	=CNO"S"	II19957	1969	USA
WREN-MEX	WE-M	Y50 _E /8156(R)//KAL =TANZANIA KORORO	II28895-300Y-304M-0Y	1971	Mexico
				1976	Tanzania
WW 15	WW15	=ANZA	II8739-4R-1M-1R	1969	Australia
YACO	YACO	HIM/COC//NAC	CM41195	1981	Mexico
YAFEN	YFN	FKN/Y50	II8392-3R-1M-1R	1965	Chile
YDING	YD	CNO"S"/PJ//GLL	II30793	1977	Mexico
YECORA 70	YR	=BLUEBIRD #2	II23584-26Y-2M-1Y-0M	1970	Mexico
YECORA ROJO	YRR	=BLUEBIRD"S"	II23584	1975	USA
YECORATO 77	YRT	INIA66/CNO//CAL/3/BB#2 RESEL	II40041-9M-2R-6M-4S-0M	1977	Mexico
YUKON		TP//CNO/INIA66"S"/3/SR"S"/4/ HORK"S"	CM30109	1977	Mexico

Table 1. (continued)

Name	Abbrev.	Cross	Pedigree	Year	Country
ZAFRANE	ZAF	=MARCOS JUAREZ INTA"S"	II19975-68Y-1J-1Y-1J-5Y-1T	1971	Tunisia
ZACATECAS 74	ZCT	NOR/4/CNO"S"/JAR/3/ Y50 _E /CNO"S"//CN	II30861-1R-104M-109S-101M-0R	1974	Mexico
ZARAGOZA 75	ZA75	MENG/8156	H22364-1Y-6C-1Y-1C-4Y-3C-2R-100Y	1975	Mexico
ZENZONTLI	ZZ	ZA75/JAR"S"/3/3*TH/2*FN//K58N	II27106	1971	Mexico
ZOPILOTE	ZP	SON64A/6*SK _E //3*AN _E /3/M// 2*RW/2*BZA	II20911-2E-8E-2E	1973	Ecuador

Table 2. Cultivars with common origins

Cross Number	Cross	Cultivar	Country
II-8156	PJ"S"/GB55	Indus 56 Kalyan Kalyansona Laketch Mexipak Mivhor 177 PV18A Sidi Misri 1 Siete Cerros Super X	Pakistan India India Ethiopia Pakistan Israel India Lybia Mexico Mexico
II-8739	LR/N10B//3*AN _E	Anza Karamu Mexicani Moghan 1 SNA 1 T-4 WW 15	USA New Zealand Sudan Iran Chile South Africa Australia
II-18889	SON64A//TZPP/ NAI60	Bajio 66 Jaral 66 Leones Inta	Mexico Mexico Argentina
II-19008	LR64/SON64	Inia 66 Noroeste 66 Norteño 67 U.P. 301	Mexico Mexico Mexico India
II-19021	TZPP/SON64A	Bajio 67 Peak Red River 68 Tobari 66	Mexico USA USA Mexico
II-19957	PI/CHR"S"//SON64	Ahome S 70 Azteca 67 Bonanza Bounty 208 Chaparral Ciano 67 Colano Lapacho World Seeds 1651	Mexico Mexico USA USA USA Mexico USA Argentina USA

Table 2. (continued)

Cross Number	Cross	Cultivar	Country
II-19975	SON64/KLRE	Abu Ghraib #3 Marcos Juarez Inta Soltane Zaafrane	Iraq Argentina Tunisia Tunisia
II-23584	CNO*S*//SON64/KLRE /3/8156 Bluebird (CIMMYT name)	Cajeme 71 Gwebi Nuri 70 Pari 73 Probred Quimori 79 Sakha 8 Sandal 73 Saric 70 Yecora 70 Yecora Rojo	Mexico Rhodesia Mexico Pakistan USA Bolivia Pakistan Pakistan Mexico Mexico USA
II-26265	CNO*S*/PJ//CNO*S* /7C Chanate (CIMMYT name)	Sakarya Salamanca 75	Turkey Mexico
II-27829	CNO*S*/GLL	Antizana Fath Maya 74 Ulucak	Ecuador Tunisia Guatemala Turkey
II-30842	II 12300//LR64/ 8156/3/NOR	Anahuac 75 Cocoraque 75 Jupateco 73	Mexico Mexico Mexico
CM-5287	TZPP/PL//7C Bluejay (CIMMYT name)	Huequen Inia Jahuara 77 Nacozari 76	Chile Mexico Mexico
CM-8399	VCM//CNO*S*/7C/3/ KAL/BB	Gavilan Hartog Pavon F 76 Pilanchu Ibta 80 Totora Ibta 80 Victoria	Peru Australia Mexico Bolivia Bolivia Chile
CM-11683	D6301/NAI60//WRM/3/ CNO*2/CHR Alondra (CIMMYT name)	Alondra 4546 (ML) Ica Susata	Brazil Colombia

Table 2. (continued)

Cross Number	Cross	Cultivar	Country
CM-31678	BY/MAYA"S"/4/	Ciano T 79	Mexico
	BB//HD832.5/ON/3/	Cristina	Peru
	CNO/PJ	Imuris T 79	Mexico
	Buckbuck (CIMMYT name)		
CM-33027	KVZ/BUHO"S"// KAL/BB Veery (CIMMYT name)	Cordillera	Paraguay
		Gamtoos	South Africa
		Genaro F 81	Mexico
		Glennson M 81	Mexico
		Lima 1	Portugal
		Loerie	Zambia
		Millaleau Inia	Chile
		Pakistan 81	Pakistan
		Seri 82	Mexico
		Seric	Zambia
		Ures T 81	Mexico
		Viri	Tanzania

Table 3. Abbreviations indicating where crosses were made

Letter Code	Explanation	Organization, Location
ALG	Algeria	ICC, Algeria
BR	Brazil	FECOTRIGO, Brazil
CG	Cruza Guatemala	ICTA, Guatemala
CF	Cruza Fraternal	INIA, Mexico
CH	Chile	INIA, Chile
CM	Cruza Mexicana	CIMMYT, Mexico
CMH or H	Cruza Mexicana Híbridos	CIMMYT, Mexico
CNT	Centro Nacional de Trigo	EMBRAPA, Brazil
COL	Colombia	ICA, Colombia
E	Ecuador	INIAP, Ecuador
II		INIAP, Ecuador
MJ	Marcos Juarez	INTA, Argentina
PK	Pakistan	Pakistan
PF	Passo Fundo	EMBRAPA, Brazil
SE	Spring Wheat Agean	National Winter Cereal Program, Izmir, Turkey
SWM	Spring x Winter Mexico	CIMMYT, Mexico
TU	Tunisia	Tunisia
UC or UCD	University of California	University of California, Davis, USA

Table 4. Abbreviations indicating where selections were made

Letter code	Name	Location
A	Ariana	Tunis, Tunisia
A or a		Lyallpur, Pakistan
Al	Algers	Oued Smar, Algeria
B	Balcarce	Balcarce, Argentina
B	Batan	El Batan, Mexico
b	Surbata	Duitama, Colombia
Bj	Beja	Beja, Tunisia
Bk	Baraki	Algeria
Bv	Bordenave	Bordenave, Argentina
C	Cruz Alta	Cruz Alta, Brazil
C or c	Chillan	Chillan, Chile
E or e	Ecuador	Quito, Ecuador
gl	Guelma	Guelma, Algeria
H	Huamantla	Huamantla, Mexico
J or j	Juarez	Marcos Juarez, Argentina
Kh	Khroub	Khroub, Algeria
L	Lebanon	Lebanon
M	Mexico	Toluca, Mexico
Mb	Manuba	Tunisia
Mch	Merchouch	Morocco
P	Pergamino	Pergamino, Argentina
p	Platina	Santiago, Chile
PF	Passo Fundo	Passo Fundo, Brazil
PR	Poza Rica	Poza Rica, Mexico
Ptz	Patzcuaro	Patzcuaro, Mexico
R	Roque	Celaya, Mexico
S	Sinaloa	Mochis, Mexico
S	Setif	Setif, Algeria
S		Izmir, Turkey
T	Tamaulipas	Rio Bravo, Mexico
t	Temuco	Temuco, Chile
t	Tibaitata	Bogota, Colombia
X	Xelaju	Quezaltenango, Guatemala
Y	Yaqui	Cd. Obregon, Mexico

Table 5. Abbreviations used to identify advanced lines other than those developed by CIMMYT and/or INIA, Mexico

Abbrev.	Explanation	Institution, Location
BT	Ble Tendré	Algeria
BT	Ble Tendré	Morocco
BT	Ble Tendré	Tunisia
BUCK	Buck	Buck, Argentina
CNT	Centro Nacional de Trigo	EMBRAPA, Brazil
HB	Hybrid Bhowali	Indian Agricultural Research Institute, Bhowali, India
HD	Hybrid Delhi	Indian Agricultural Research Institute, New Delhi, India
HI	Hybrid Indore	Indian Agricultural Research Institute, Indore, India
IWP	India Wheat Program	Indian Agricultural Research Institute, New Delhi, India
KL	Klein	Klein, Argentina
MN	Minnesota	University of Minnesota, USA
ND	North Dakota	University of North Dakota, USA
PAT	Programa Acelerado de Trigo	FECOTRIGO, Brazil
PF	Passo Fundo	EMBRAPA, Brazil
RL	Rust Laboratory	Rust Laboratory, Winnipeg, Canada
UC	University of California	University of California, Davis, California, USA
UM	University of Manitoba	University of Manitoba, Canada
UP	Uttar Pradesh	Uttar Pradesh Agricultural University, Pantnagar, India
UQ	University of Queensland	University of Queensland, Toowoomba, Australia
WW	Wagga Wagga	New South Wales Department of Agriculture, Australia

Table 6. Abbreviations used in Table 1 but not explained

Abbreviation	Name	Country
AN	Andes	Peru
AN _E	Andes Enano	Mexico
AU	Aurora	USSR
BMAN	Buck Manantial	Argentina
B.T.	Ele Tendre	North Africa
BZA	Bonza	Colombia
CFN	Centrifen	Chile
CH	Chapingo	Mexico
CHR	Chris	USA
CLT	Colotana	Brazil
COFN	Colofen	Chile
COU	Coutiches	France
CTFN	Centrifen	Chile
CZHO	Carazinho	Brazil
DRC	Druchamp	France
E	Erotic	India
EL	Elite Lepeuple	France
FDL	Fundulea	Rumania
FKN	Frontana/Kenya 58// Newthatch	USA
FLR	Fletcher	USA
FN	Frontana	Brazil
FR	Frocor	Colombia
GB	Gabo	Australia
GHL	Gohls	Germany
HD	Hybrid Delhi	India
HIM	Heima	France
HK	Heines Kolben	Germany
HOP	Hopps	Australia
HUAR	Huamantla Rojo	Mexico
IAS	Iassul	Brazil

Table 6. (continued)

Abbreviation	Name	Country
KAD	Kenya A.D.	Kenya
K58	Kenya 58	Kenya
K117	Kenya 117	Kenya
KLAT	Klein Atlas	Argentina
KLPE	Klein Petiso	Argentina
KLRE	Klein Rendidor	Argentina
KNTT	Knott	Canada
KT	Kentana	Mexico
KT _E	Kentana Enano	Mexico
KVZ	Kavkaz	USSR
L 52	Lerma 52	Mexico
LD	Langdon	USA
LEE	Lee	USA
LFN	Lilifen	Chile
LV	Lagoa Vermelha	Brazil
MA	Ministerio Agricultura	Argentina
MCM	Mcmurachy	Canada
MD	Mida	USA
MENG	Mengavi	Australia
MPLM	Maris Ploughman	England
MRNG	Maringa	Brazil
N	Newthatch	USA
NAFN	Naofen	Chile
NAI 60	Nainari 60	Mexico
NAPO	Napo	Ecuador
NAR 59	Nariño 59	Colombia
N10B	Norin 10/Brevor	USA
NP	New Pusa	India
ON	Olesen	Rhodesia
PAL	Palmira	Colombia

Table 6. (continued)

Abbreviation	Name	Country
PTR	Pesterboden	USA
PTS	Piamontes	Argentina
RAF	Rafaela	Argentina
RFN	Rulofen	Chile
RQ	Roque	Mexico
RSK	Roussalka	Bulgaria
RW	Renown	Canada
SAM	Samaca	Colombia
SD	Semidwarf	Rhodesia
SE	Santa Elena	Mexico
SK _E	Selkirk Enano	Canada
STP	Stampelli	Italy
TAC	Tacuari	Argentina
TAST	<u>Triticum aestivum</u>	
TH	Thatcher	USA
TIBA	Tiba	Mexico
TOR	Tordo	Mexico
TT	Tom Thumb	Tibet
TZPP	Tezanos Pintos Precoz	Argentina
WAL	Waldron	USA
WRM	Weique/Red Mace	USA
WRT	Wheat-Rye Translocation	USA
WT _E	Willet Enano	Mexico
Y	Yaqui	Mexico
YMH	Yamhill	USA
YT	Yaktana	Mexico
ZBZ	Zambezi	Rhodesia
8156	Penjamo"S"/Gabo 55	Mexico

Notes:

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