

The Gluten Composition of Wheat Varieties and Genotypes

PART II. COMPOSITION TABLE FOR THE HMW SUBUNITS OF GLUTENIN (3rd edition)

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Introduction to the Third Edition of the HMW-GS database

Based on responses received after the publication of the 1st version, the HMW glutenin subunit allele database is proving to be a useful tool for experts working in the various aspects of wheat science and technology. With the help and contributions of many individuals, it has been possible to improve and significantly enlarge the database. Several duplications, and errors of data and spelling, have been corrected and a large number of new entries has been added, increasing the total number of cultivars/lines involved to over 7,830, derived from 18 new research publications, personal communications and some international collaborations directly aiming for the identification of HMW-Gs alleles in large sample populations from Kazakhstan/Siberia, Hungary and China. The names of all contributing individuals have been added to the Acknowledgement Section below. The agreement between AACCI and CIMMYT, on exchanging data on their existing databases, has significantly improved the quality of this work.

Compared to the first two versions, we now cover a large number of breeder lines from the various nursery programs of CIMMYT. These entries mostly contain pedigree information in their “Name/Cross” cell; in addition, the official abbreviation of the nursery program is given in the “Origin” column. These two entries clearly identify these lines. There are numerous occasions where several genetic combinations from the same cross have been selected, providing “families” of lines with different HMW-GS combinations in the same genetic background.

Introduction to the First Edition of the HMW-GS database

Many lists of HMW-subunit composition and the corresponding *Glu-1* alleles have been published, because of the importance of the high-molecular-weight (HMW) subunits of glutenin in determining and predicting dough properties. In this compilation of this information, references are given to these publications, cited against each entry, with the full reference being given in “Literature cited” section at the end of this introductory text. In other cases, the sources of the information are

indicated in the table. Details of the nomenclature used are provided in Chapter 1 of the AACCC International's book "Gliadin and Glutenin: The Unique Balance of Wheat Quality".

Difficulties in identifying specific subunits

Specific mention should be made of HMW subunit 7. Differentiation between subunits 7 and 7* (alleles *Glu-B1d* and *Glu-B1u*, respectively) is sometimes difficult, but their respective contribution to dough properties is significantly different and significant (Bekes et al 2004). In particular, there is the recent realization that subunit 7 is over-expressed in some genotypes (Butow et al 2003, Gianibelli et al 2002, Juhasz et al 2003, Vawser and Cornish 2004). The greater quantity of this subunit, in such cases, increases its contribution to dough strength considerably. It is thus important to differentiate among alleles *Glu-B1d*, *Glu-B1u* and *Glu-Bal*, but this may not be signified in the list for HMW subunits, especially for those sources dated prior to 2000.

Over-expressed 7 is readily distinguished from normal expression of band 7 using SDS-PAGE when run alongside reference varieties. PCR techniques may also be used in breeding programs to screen progeny to differentiate among alleles with different subunit 7 subunits (Lei et al 2006). RP-HPLC and the Lab-on-a-chip system are valuable in quantifying the band (or peak) representing subunit 7, and thus detecting the over-expressed version (Marchylo et al 1989, Vawser and Cornish 2004, Uthayakumaran et al 2006).

There are also scoring inconsistencies in the literature for some cultivars at the *Glu-B1* locus for the 14+15 and 20 HMW glutenin subunits. Due to the close proximity of these bands when using SDS-PAGE there are a number of cultivars that may be mis-classified, usually with the 14+15 subunits being classified as the 20 subunit.

To assist in the practical task of identifying the HMW subunits of glutenin, a list of primary standards for them has been proposed (Table 1). Authentic sources of these genotypes are indicated according to AUS accession numbers from the Australian Winter Cereals Collection, Tamworth, NSW, Australia.

Table 1. Primary standards for allocating allele designations for HMW subunits of glutenin

Locus	Allele	Primary Standard	AUS #
<i>Glu-A1</i>	<i>A</i>	Kukri	29472
	<i>B</i>	Cheyenne	2123
	<i>c</i>	Chinese Spring	110
<i>Glu-B1</i>	<i>a</i>	Hobbit	24782
	<i>al</i>	Kukri	29472
	<i>b</i>	Chinese Spring	110
	<i>c</i>	Cheyenne	2123
	<i>d</i>	Jufy 1	2684
	<i>e</i>	Insignia	2642
	<i>f</i>	Baxter	27694
	<i>g</i>	Florence	
<i>h</i>	Free Gallipoli	2441	

	<i>i</i>	Gabo	246
	<i>u</i>	Janz	24794
<i>Glu-D1</i>	<i>a</i>	Chinese Spring	110
	<i>b</i>	Hobbit	24782
	<i>c</i>	Amery	25598
	<i>d</i>	Cheyenne	2123

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NAME/ CROSS	ORIGIN	Glu11	GI7*+8-B1	Glu-5+101	alleles	Source
74	China	null	7+8	2+12	c, b, a	Khan et al, 1989
79	China	2*	7*+8	2+12	b, u, a	Vozquez et al, 2003
80	China	2*	17+18	2+12	b, i, a	Vozquez et al, 2003
213	China	1	7+9	2+12	a, c, a	He et al, 1992;
514	China	null	7+9	4+12	c, c, c	Wang et al, 1993;
778	China	null	7+8	2+12	c, b, a	He et al, 1992;
883	China	null/1	OE7+8	4+12	c/a, al, c	Liu et al 2008
883	Canada	1	7*+8	5+10	a, u, d	Morgounov et al 2008
1191	Chile	2*	7+9	2+12	b, c, a	Vozquez et al, 2003
1763	Chile	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
1774	Chile	2*	13+16	2+12	b, f, a	Vozquez et al, 2003
1817	China	null	7+8	2+12	c, b, a	Wang et al, 1993;

2137	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
2145	U.S.A.	1/2*	7+8	5+10	a/b, b, d	Shan et al, 2007;
2174	U.S.A.	2*	6*+8*	5+10	b, w, d	Shan et al, 2007;
2321	Chile	2*	17+18	2+12	b, i, a	Vozquez et al, 2003
2916	Chile	2*	7+9	2+12	b, c, a	Vozquez et al, 2003
2917	Chile	2*	17+18	5+10	b, i, d	Vozquez et al, 2003
5178	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
6010	Chile	null	7+9	2+12	c, c, a	Khan et al, 1989;
6154	China	1	7+8	2+12	a, b, a	He et al, 1992;
21593	China	1	7+8	2+12	a, b, a	Wang et al, 1993;
50026	CIMMYT-8TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
51234	China	1	7+9	5+10	a, c, d	Wang et al, 1993;
60877	China	1	7+9	2+12	a, c, a	Wang et al, 1993;

81168	China	1	7+9	2+12	a, c, a	He et al, 1992;
880915	Australia	1	17+18	5+10	a, i, d	Cornish, 2005;
924122	China	null	7+9	4+12	c, c, c	He et al, 2005;
(Mx*DAG#3)/B19/h9/9	Australia	1	7+8	5+10	a, b, d	Cornish, 2005;
(Yr10War*Mol#)/1/1	Australia	1	7+8	2+12	a, b, a	Cornish, 2005;
[KASYON]/PVN/SPRW	CIMMYT-14TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
[KASYON]/GLEN	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
\laura	Canada	1	OE7+8	5+10	a, al, d	Cornish, 2005;
042/97	Chile	1	7*+8	5+10	a, u, d	Vozquez et al, 2003;
112-29	Sudan	f	-	-	f, ,	McIntosh et al, 1990; McIntosh et al, 1989;
132-c	Poland	e	-	-	e, ,	McIntosh et al, 1990; McIntosh et al, 1989;
27-90-98-3	Kazakhstan	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
38-ma	Argentina	1	7+8	2+12	a, b, a	Gianibelli et al, 2002;

494J6.11	CIMMYT-3RD FAWWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
53-88-94-12	Kazakhstan	2*	17+18	5+10	b, i, a	Morgounov et al 2008
53-94-98-2	Kazakhstan	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
74-chang-1	China	null	7+8	2+12	c, b, a	He et al, 1992;
77-2838	China	1	7+9	2+12	a, c, a	Wang et al, 1993;
78-205-456	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
78-z-976	Australia	1	7+8	5+10	a, b, d	Cornish, 2005;
8156 (White Grain)	Mexico	2*	17+18	2+12	b, i, a	Cornish, 2005;
822-01#(TW-1 x KS)	India	2*	20	2+12	b, e, a	Bhagwat and Bhatia, 1988;
823-12'(KS x Naphal)	India	2*	7+8	5+10	b, b, d	Bhagwat and Bhatia, 1988;
824-02#(KS x Mahratta)	India	1	20	5+10	a, e, d	Bhagwat and Bhatia, 1988;
82-y-1185	Australia	1	17+18	2+12	a, i, a	Cornish, 2005;
82-y-1186	Australia	1	17+18	2+12	a, i, a	Cornish, 2005;

83-z-1076	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
84-w-1137	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
85 Zhong 33	China	null/1	7+9	2+12	c/a, c, a	Liu et al 2008
9(54)	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
93 Zhong 6(37)	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
96C1	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
96C1	China	null/1	7+9	2+12	c/a, c, a	Liu et al 2008
98 Zhong 18	China	null/1	OE7+8	4+12	c/a, al, c	Liu et al 2008
99G46	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
99G46	China	null/1	7+9	4+12	c/a, c, c	Liu et al 2008
99G66	China	null/1	7+8	4+12	c/a, b, c	Liu et al 2008
99G80	China	2*	OE7+8	4+12	b, al, c	Liu et al 2008
99P077	China	1	6+8	5+10	a, d, d	Liu et al, 2005;

99P102	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
A-0-90	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
A-1	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
A-1-8-1	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
A-206	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
A-28	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
A-739	India	2*	13 + 16	-	b, f, -	Oak et al, 2004;
A-9-30-1	India	2*	13 + 16	-	b, f, -	Oak et al, 2004;
Abano	Italy	null	7+9	2+12	c, c, a	Pogna et al, 1989;
Abbazia	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Abbondanza	Italy	1	7*+8	2+12	a, u, a	He et al, 1992; Pogna et al, 1989;
Abbot	U.K.	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;
Abdelkader	Tunesia	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;

Abe	U.S.A.	1	7+9	5+10	a, c, d	Lookhart et al, 1993;
Abel	France	null	7+8	2+11	c, b, q	Branlard and Le Blank, 1985;
Abele	U.K.	1	6+8	2+12	a, d, a	Cornish, 2005;
Abel-lafite	France	null	7+8	2+11	c, b, q	Branlard and Le Blank, 1985;
Abental	Portugal	null	6+8	5+10	c, d, d	Igrejas at al, 1999
Abilene	U.S.A.	2*	13+16	5+10	b, f, d	Graybosh, 1992;
Ablaca	Spain	2*	7+8	5+10	b, b, d	Cornish, 2005;
Abo	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Aboukir	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Above	U.S.A.	2*	7+8	2+12	b, b, a	Shan et al, 2007;
Absolvent	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Absolvent	Germany	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Anon, 1998;
Abu-ghraib-3	Iraq	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;

AC 13+16oremost	Canada	1	7+8	2+12	a, b, a	Bushuk, 2006;
AC 13+16oremost (HY 392)	Canada	1	7+8	2+12	a, b, a	Bushuk, 2006;
AC Baltic	Canada	1	7+8	2+12	a, b, a	Bushuk, 2006;
AC Barrie (BW 661)	Canada	2*	7+8/7+9	5+10	b, b/c, d	Bushuk, 2006;
AC Cora (BW 152)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
AC Crystal (HY 417)	Canada	1	7+8	5+10	a, b, d	Bushuk, 2006;
AC Domain (BW 148)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
AC Eatonia (BW 642)	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
AC Karma (HY 395)	Canada	1	7+9	2+12	a, c, a	Bushuk, 2006;
AC Majestic (BW 173)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
AC Melita (DT 475)	Canada	null	6+8	-	c, d, -	Bushuk, 2006;
AC Michael (BW 653)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
AC Minto (BW 120)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;

AC Morse (DT 484)	Canada	null	6+8	-	c, d, -	Bushuk, 2006;
AC Phil	Canada	2*	20	2+12	b, e, a	Bushuk, 2006;
AC Reed (SWS -87)	Canada	2*	20	2+12	b, e, a	Bushuk, 2006;
AC Taber	Canada	1	7+9	5+10	a, c, d	Bushuk, 2006;
AC Vista	Canada	1	7*+8	2+12	a, u, d	Morgounov et al 2008
AC Vista (HY 413)	Canada	1	VII	2+12	a, x, a	Bushuk, 2006;
Aca 303	Argentina	2*	OE7+8	5+10	c, al, d	Liu et al 2008
Aca 601	Argentina	2*	OE7+8	5+10	c, al, d	Liu et al 2008
Aca 801	Argentina	2*	7+9	5+10	c, c, d	Liu et al 2008
Acadia	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
AC-Baltic	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
AC-Barrie	Canada	2*	7+8/7+9	5+10	b, b/c, d	Bushuk, 1997; Anon, 1998; Cornish, 2005
AC-Cora	Canada	2*	7+9	5+10	b, c, d	Bushuk, 1997; Anon, 1998;

AC-Crystal	Canada	1	7+8	5+10	a, b, d	Anon, 1998;
AC-Domain	Canada	2*	7+9	5+10	b, c, d	Bushuk, 1997; Anon, 1998;
AC-Eatonia	Canada	2*	7+8	5+10	b, b, d	Bushuk, 1997; Anon, 1998;
AC-Foremost	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
Achat	Austria	1	6+8	2+12	a, d, a	Loeschenberger et al, 1998;
AC-Karma	Canada	1	7+9	2+12	a, c, a	Anon, 1998;
AC-Majestic	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
AC-Melita	Canada	null	6+8	null	c, d, i	Anon, 1998;
AC-Michael	Canada	2*	7+9	5+10	b, c, d	Bushuk, 1997; Anon, 1998;
AC-Minto	Canada	2*	7+9	5+10	b, c, d	Bushuk, 1997; Anon, 1998;
AC-Morse	Canada	null	6+8	null	c, d, i	Anon, 1998;
AC-Navigator	Canada	null	6+8	null	c, d, i	Anon, 1998;
AC-Pathfinder	Canada	null	6+8	null	c, d, i	Anon, 1998;

AC-Phil	Canada	2*/null	20	2+12	b/c, e, a	Anon, 1998; Cornish, 2005
AC-Reed	Canada	2*/null	20	2+12	b/c, e, a	Anon, 1998; Cornish, 2005
AC-Taber	Canada	1/2*	7+9/7	5+10/2+12	a/b, c/a, d/a	Anon, 1998; Cornish, 2005
AC-Vista	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
Ada	Litvania	1	7+9	5+10	a, c, d	Ruzgas and Liutkevicius, 2000;.
Adam	Austria	null	7+8/7+9	5+10	c, b/c, d	Groger et al, 1997; Branlard and Blank, 1985;
Adamant	Netherlands	1	6+8	2+12	a, d, a	Kolster et al, 1993;
Adamello	Italy	null	6+8/7+8	null	c, d/b, i	Anon, 1998;
Adam-tas	South Africa	1	7+8	2+12	a, b, a	Cornish, 2005;
Adana-99	Turkey	1	22	5+10	a, k, d	Sanal et al, 2005
Adda	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989;
Adder	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Adena	U.S.A.	2*	7+9	3+12	b, c, b	Graybosh, 1992;

Adjini-ap-1	Tunesia	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Admiral	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005
Adonis	Netherlands	1	7/17+18	2+12	a, a/ai, a	Kolster et al, 1988; McIntosh et al, 1989; McIntosh et al, 1998;
Adria	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Adriano	Italy	1	7+9	5+10	a, c, d	Pogna et al, 1989;
Adroit	U.K.	null	17+18	4+12	c, i, c	Cornish, 2005;
Adular	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Advantage	France	1	7	5+10	a, a, d	Griffin, 1994; Griffin et al, 2001;
Adyr	Kyrgyzstan	2*	7*+8	2+10	b, u, e	Urazaliev,2003;
Aeges	Greece	null	7+15	2+12	c, z, a	Matsoukas and Morrison, 1991
Afghanistan-75	Afghanistan	null	7+8	-	, b,	Cornish, 2005
Agate	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Agathe	France	null	6+8(?)	-	c, d(?),	Branlard and Le Blank, 1985;

Agent	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Agent	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Agini	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Agini (CItr-3838)	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Agini (CItr-3844)	Algeria	2*	6+8	-	b, d, -	Carillo et al, 2005;
Agini (CItr-3845)	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Agra	Slovak Republic	1	7+9	5+10	a, c, d	Cerny, et al 1989; Gregova et al, 1997;
Agripro-abilene	U.S.A.	2*	13+16	5+10	b, f, d	Graybosh, 1992;
Agripro-hawk	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993;
Agripro-magnum	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Agripro-thunderbird	U.S.A.	2*	13+16	5+10	b, f, d	Graybosh, 1992;
Agris	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Agris-1	Romania	2*	7+8	2+12	b, b, a	Popa et al, 2004

Agriss	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Agron	Austria	2*	7+9	5+10	b, c, d	Groger et al, 1997;
Agseco7853	China	1	7+9	5+10	a, c, d	He et al, 2005;
Agt-scythe	Australia	2*	17+18/7*+8	2+12	b, i/u, a	Wrigley et al, 2005
AHOME F 2000	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Aifeng-3	China	1	7+9	2+12	a, c, a	He et al, 1992;
Aiglon	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Aim	U.S.A.	2*	17+18	5+10	b, i, d	Cornish, 2005;
Aiwangshuibai	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
Aizao-781	China	null	20	4+12	c, e, c	He et al, 1992;
Ajana	Australia	2*	17+18	2+12	b, i, a	Wrigley et al, 2005
Ajantha	India	null	7+8	2+12	c, b, a	Das et al, 2001;
Akademiya	Russia	null	7+9/7+8	5+10	c, c/b, d	Rabinovich et al, 2001;

Akakomugi	Japan	null	7+8	5+9	c, b, g	Xue-Yong et al, 2002
Akatsukikomugi	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Akhtyrchanka	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Rabinovich et al, 2000a;
Akmola-2	Kazakhstan	2*	7+9	2+12	b, c, a	Absattarova, 2005;
Akmolinka-1	Kazakhstan	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Akron	U.S.A.	2*	7+8/7+9	5+10/2+12	b, b/c, d/a	Shan et al, 2007;
Aktobe 32	Kazakhstan	null	g	2+12	c, g, a	Morgounov et al 2008
Alana	Czech Republic	null	7+8	2+12	c, b, a	Sasek et al, 1997;
Alba	Belgium	1	7	2+12	a, a, a	Branlard and Le Blank, 1985; Rabinovich et al, 2000b;
Alba	Poland	2*	7+9	5+10	b, c, d	Galova et al, 2001
Albatros-odesskii	Ukraine	1	7+8	5+10	a, b, d	Morgunov et al, 1990; Ya, 1997; Sobko and Sozinov, 1999;
Albatross	Belgium	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Albidum 3700	Russia	2*	7*+8	5+10	b, u, a	Morgounov et al 2008

Albidum-114	Russia	1	7+8	5+10	a, b, d	Ya, 1997; Rabinovich et al, 2000a;
Albidum-12	Russia	1	7+8	5+10	a, b, d	Ya, 1997;
Albidum-24	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Albidum-28	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Albidum-29	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Albidum-43	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Albidum-604	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Albit	U.S.A.	1	6	5+10/2+12	a, an, d/a	Rayfuse and Jones, 1993;
Alborz	Iran	2*	17+18	2+12	b, i, a	Bahraei et al, 2004;
Albota	Romania	null	7+9	5+10	c, c, d	Hagima et al, 1989;
Albrecht	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Alcazar	Spain	null	7+8	5+10	c, b, d	Cornish, 2005;
Alchanmil	Korea	null	7+8	5+10	c, b, d	Hyun et al, 2001;

Alcotan	Spain	null	7+9	2+12	c, c, a	Cornish, 2005;
ALD/CEP75630/ /CEP75234/PT7219/3/BUC/BJY	CIMMYT-7TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ALD/PVN/ /YMI #6/3/KAUZ/4/NANJING8331	CIMMYT-8TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
ALDAN/IAS58//OPATA	CIMMYT-14TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ALDAN/IAS58//OPATA/3/KAUZ	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Aldura	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Alentejo	Portugal	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Aleppo-23	Syria	null	7+9	2+12	c, c, a	Rayfuse and Jones, 1993;
Alex	France	null	7+9	4+12	c, c, c	Branlard and Le Blank, 1985; Rabinovich et al, 2000a;
Alex	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993; Rabinovich et al, 2000b;
Alexandre	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Alexandria	Netherlands	1	7+9	5+10	a, c, d	Cornish, 2005;
Alfold	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005

Alforge	Portugal	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;
Algerien	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Algerien 2	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Algot	Sweden	2*	7+8	12	b, b, l	Dubuc and Boudreau, 1992;
Alicel	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Alidos	Germany	null	17+18	5+10	c, i, d	Kazman and Lein, 1996; Groger et al, 1997;
Aljmasanka	Croatia	1	7+8	2+12	a, b, a	Jurkovic et al, 2000;
Alka	Czech Republic	null	6+8	5+10	c, d, d	Kazman and Lein, 1996; Sasek et al, 1997;
Allegro	France	null	7+9	4+12	c, c, c	Branlard and Le Blank, 1985;
Alliance	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Alma	Litvania	1	7+8	5+10	a, b, d	Paplauskiene and Ruzgas, 2002;
Almaly	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Almansor	Portugal	2*	17+18	5+10	b, i, d	Igrejas at al, 1999

Almari	Germany	null	6+8	2+12	c, d, a	Masauskiene et al, 2002;
Alondra	Mexico	1	17+18	5+10	a, i, d	Rabinovich et al, 2000b;
Alondra-s	Brazil	null	-	5+10	c, , d	Xue-Yong et al, 2002
Alpe	Italy	2*	7*+8/7+9/7+8	5+10/2+12	b, u/c/b, d/a	Pogna et al, 1989; Branlard et al, 2003;
Alpha	Canada	2*	7+8/17+18	5+10	b, b/i, d	Anon, 1998;
Alpha (HY 612)	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
Alpha-16	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
Alpha-hw	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
Alsen	U.S.A.	2*	7+9	5+10	b, c, d	Cavanagh, 2005
Altaiskaya 100	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Altaiskaya 105	Russia	2*	7*+8	5+10	b, u, a	Morgounov et al 2008
Altaiskaya 530	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Altaiskaya-50	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;

Altayskaya-88	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Altayskaya-92	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Altayskii-prostor	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
ALTAR 84/AE.SQUARROSA (219)/ /2*SERI	CIMMYT-31ST IBWSN	2*	7+8/13+16	1.5+T2	b, b/f, ag	Payne and Pena, 2006;
ALTAR 84/AE.SQUARROSA (224)/ /PGO	CIMMYT-14TH SAWSN	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
ALTAR 84/AEGILOPS	CIMMYT-16TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
ALTAR 84/AEGILOPS SQUARROSA (TAUS)/ /OCI	CIMMYT-29TH IBWSN	null	7+8	1.5+12	c, b, aj	Payne and Pena, 2006;
ALTAR 84/AEGILOPS SQUARROSA (TAUS)/ /OPATA	CIMMYT-6TH SAWYT	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
Altayskaya 92	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Alter-deutscher-unbegrannt-rot	Germany	null	20	2+12	c, e, a	Gregova et al, 2004;
Alto	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Alturas	U.S.A.	1	13+16	5+10	a, f, d	Schuster et al, 1997
Altyn-masak	Kazakhstan	2*	17+18	5+10	b, i, d	Urazaliev,2003;

ALUBUC	CIMMYT-7TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
ALUBUC/BUC//PRL/VEE#6	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ALUBUC/THB//ALUBUC	CIMMYT-7TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Alva	Portugal	1	17+18	5+10	a, i, d	Igrejas et al, 1999
Alvand	Iran	1/null	b	2+12	a/c, b, a	Bahraei et al, 2004;
Alvina	France	null	7+8	5+10	c, b, d	Branlard et al, 2003;
Amadeus	Austria	2*	7+9	5+10	b, c, d	Kazman and Lein, 1996; Groger et al, 1997;
AMADINA	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Amadina	Mexico	1	7+9	5+10	c, c, d	Liu et al 2008
Amandus	Germany	null	7+8	2+12	c, b, a	Rogers et al, 1989;
Amarelejo	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Amarelo-de-barba-preta	Portugal	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;
Amazonas	Portugal	1	7+9	5+10	a, c, d	Igrejas et al, 1999

Ambassador	U.K.	null	6+8	3+12	c, d, b	Cornish, 2005;
Ambras	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
Amedeo	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
American-club	U.K.	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Amery	Australia	2*	17+18	4+12/2+12	b, i, c/a	Anon, 1998;
Amethyst	Australia	null	7	5+10	c, a, d	Cornish, 2005
Amethyst	New Zealand	null	7+9	5+10	c, c, d	Griffin et al, 2001;
Ami	France	null	7+8	5+10	c, b, d	Branlard et al, 2003;
Amidon	U.S.A.	1	7+9	5+10	a, c, d	
Amidur	France	null	20	-	c, e,	Branlard and Le Blank, 1985;
Amigo	U.S.A.	1/2*	7+8/7+9	2+12/5+10	a/b, b/c, a/d	Branlard and Le Blank, 1985; Hsam et al, 1995;
AMSEL*2/PF8237	CIMMYT-7TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
AMSEL/ATTILA	CIMMYT-31ST IBWSN	1	7	2+12	a, a, a	Payne and Pena, 2006;

AMSEL/BAU	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
AMSEL/KAUZ	CIMMYT-15TH SAWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
AMSEL/KAUZ//KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
AMSEL/TUI	CIMMYT-14TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Amurskaya-75	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
An-1	Ukraine	null	7+9	2+12	c, c, a	Sobko and Sozinov, 1999;
Ana	Croatia	1	7+9	5+10	a, c, d	Jurkovic et al, 2000; Horvat et al, 2002;
Anafil-claro	Portugal	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;
Anafil-escuro	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Anahuac	Mexico	1	7+8	5+10	a, b, d	Schuster et al, 1997
Anatolien	Hungary	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
ANB/BUC	CIMMYT-8TH HRWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Ancona	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;

ANDA/MLT	CIMMYT-30TH IBWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
Andante	U.K.	null	17+18	2+12	c, i, a	Cornish, 2005;
Anderson	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Andros	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Angas	Australia	1/2*	7+8/7+9	2+12/5+10	a/b, b/c, a/d	Cornish, 2005; Anon, 1993c;
ANGRA/2*CAZO	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Angus	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Ani-326	Armenia	null	7+9	2+10	c, c, e	Urazaliev,2003;
Ani-352	Armenia	null	7+9	2+10	c, c, e	Urazaliev,2003;
Ani-435	Armenia	null	13+16	2+10	c, f, e	Urazaliev,2003;
Ani-591	Armenia	null	7+9	2+10	c, c, e	Urazaliev,2003;
Aniene	Italy	null	7*+8/7	2+12/5+10	c, u/a, a/d	Pogna et al, 1989;
Aniversar	Romania	1	7+8/7+9	5+10/2+12	a, b/c, d/a	Hagima et al, 1989;

Ankor	U.S.A.	2*	7+8/7+9	5+10/2+12	b, b/c, d/a	Shan et al, 2007;
Ankra	Canada	1	7+9	5+10	a, c, d	Bushuk, 2006;
Ankra	Netherlands	1	7+9	5+10	a, c, d	Ng and Pogna, 1989; Anon, 1998;
Anlace	Australia	1	7*+8	2+12	a, u, a	Cornish, 2005
Annette	Canada	2*	7+9	5+10	b, c, d	Anon, 1990;
Annong 91168	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Annong 91168	China	null/1	7+8	5+10	c/a, b, d	Liu et al 2008
Annong 94022	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Annong 98005	China	null	7+9	4+12	c, c, c	Liu et al, 2005;
Annong-2	China	1	7+8	5+10	a, b, d	Xue-Yong et al, 2002
Annong-88455	China	1	7+8	5+10	a, b, d	Xue-Yong et al, 2002
Annuello	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
Anouk	Belgium	null	6+8	2+12	c, d, a	Kolster et al, 1993; Anon, 1998;

Anouska	Belgium	null	6+8	2+12	c, d, a	Kolster et al, 1993; Anon, 1998;
Antelope	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Antoninska-wczesna	Poland	1	7+9/6+8	2+12/5+10	a, c/d, a/d	Gregova et al, 1999;
Antonius	Austria	1	7+9	5+10	a, c, d	Groger et al, 2005
Antti	Finland	1/null	7+9	5+10	a/c, c, d	Sontang et al, 1986
Anvil	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Anza	Mexico	null/2*	7+8/7	2+12	c/b, b/a, a	Lookhart et al, 1993; Rabinovich et al, 2000b; May, 2004;
Aobakomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Aotea	New Zealand	d	6+8	2+12	d, d, a	Griffin, 1994; Griffin et al, 2001;
AP03-20	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
Apache	U.S.A.	1/2*	6+8	3+12	a/b, d, b	Graybosh, 1992;
Apatinka	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989;
Apex	Canada	1	7+9	5+10	a, c, d	Anon, 1998; Rabinovich et al, 2000b;

Apex-83	U.S.A.	1	7+8	5+10	a, b, d	Cornish, 2005;
Apexal	France	null	7+9	5+10	c, c, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Apollo	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Groger et al, 1997; Bonjean et al, 2001; Branlard et al, 2003; Rogers et al, 1989;
Apostle	U.K.	null	17+18/6+8	2+12	c, i/d, a	Branlard et al, 2003; Wegrzun et al, 1998;
Appio	Italy	null	20	null	c, e, i	Vallega and Waines, 1987; Anon, 1998;
Appulo	Italy	null	20	null	c, e, i	Vallega and Waines, 1987; Anon, 1998;
Apu	Finland	null	7+8	2+12	c, b, a	Rabinovich et al, 2000b;
Apulia	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Aquila	Italy	2*	7*+8	2+12	b, u, a	Pogna et al, 1989;
Aquila	U.K.	null	7	2+12	c, a, a	Groger et al, 1997; Branlard and Le Blank, 1985; Rogers et al, 1989;
Aquileja	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Aquilon	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985;
Arai	Kazakhstan	1	7+8	5+10	a, b, d	Absattarova, 2005;

Aranka	Czech Republic	1	14+15	5+10	a, h, d	Rabinovich et al, 2000b;
Arapahoe	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Pike and MacRitchie, 2004;
Arawa	New Zealand	1	7	5+10	a, a, d	Griffin, 1994; Griffin et al, 2001;
Arbhavi Local	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
Arbon	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Arcane	France	null	7+8	2+12	c, b, a	Branlard et al, 2003;
Arcangelo	Italy	null	20	null	c, e, i	Vallega and Waines, 1987; Anon, 1998;
Archamp	France	null	7	5+10	c, a, d	Igrejas at al, 1999
Arche	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Archer	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Arcola	Canada	null	6+8/7+8/20	null	c, d/b/e, i	Anon, 1989; Vallega, 1988; Anon, 1998; Ng and Pogna, 1989;
Arcole	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985; Branlard et al, 2003;
Ardec	Belgium	null	7+8	2+12	c, b, a	Cornish, 2005;

Ardito	Italy	2*	7+9	2+12	b, c, a	Pogna et al, 1989;
Arena	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Ares	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Rogers et al, 1989;
Arfort	France	2*	17+18	5+10	b, i, d	Branlard et al, 2003;
Argee	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993;
Argelato	Italy	null	7	2+12	c, a, a	Dencic and Borojevich, 2001; Soltes-Rak, 1991; Pogna et al, 1989;
Argelino	Spain	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Argentine-9	Argentina	2*	7+8	2+12	b, b, a	Cornish, 2005;
Argueil	France	2*	7+9	5+10	b, c, d	Igrejas at al, 1999
Ariana-66	Tunesia	2*	7+9	5+10	b, c, d	Cornish, 2005;
Ariana-8	Tunesia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Ariano	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Aric-581-1	Turkey	o	-	-	o, ,	McIntosh et al, 1991; McIntosh et al, 1993;

Aristide	France	2*	7	5+10	b, a, d	Branlard et al, 2003;
Aristocrat	U.K.	null	6+8	5+10	c, d, d	Cornish, 2005;
Aristos	Germany	null/1	7+9	5+10	c/a, c, d	Groger et al, 2005
ARIVECHI M 92	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Arivechi-m-92	Mexico	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Ark-38-1	U.S.A.	2*	7+9	2+12/5+10	b, c, a/d	Lookhart et al, 1993
Arkan	U.S.A.	1	7+9	2+12/5+10	a, c, a/d	Lookhart et al, 1993;
Arkas	Germany	1	7	5+10	a, a, d	Kolster et al, 1993;
Arlin	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Arlin	U.S.A.	2*	7+9	5+10	b, c, d	Pike and MacRitchie, 2004;
Armada	U.K.	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Arminda	Netherlands	null	7	2+12	c, a, a	Kolster et al, 1988; Kolster et al, 1993; Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003;
Armur	France	null	7+9	5+10	c, c, d	Branlard et al, 2003;

Armyanka-60	Armenia	null	7*+8	2+10	c, u, e	Urazaliev,2003;
Arnhem	Australia	1	17+18	2+12	a, i, a	Cornish, 2005;
Arno	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Aron	Germany	null	7+9	5+10	c, c, d	Masauskiene et al, 2002;
Aron	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Aroona	Australia	1	7+9/7+8	2+12	a, c/b, a	Cornish, 2005; Anon, 1993c;
Aroona-a	Australia	1	7+9/7*+8	2+12	a, c/u, a	Lawrence, 1986
Aroona-b	Australia	1	7+8	2+12	a, b, a	Lawrence, 1986
Arpain	France	null	7+9	5+10	c, c, d	Igrejas at al, 1999
Arpege	France	2*	7+9	5+10	b, c, d	Igrejas at al, 1999
Arqua	Italy	2*	17+18	2+12	b, i, a	Pogna et al, 1989;
Arrancada-j-913685	Portugal	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
Arrino	Australia	2*	17+18	2+12	b, i, a	Wrigley et al, 2005

Arromanches	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Arrowsmith	U.S.A.	1	17+18	5+10	a, i, d	Shan et al, 2007;
Arsenal	France	1	6+8	2+12	a, d, a	Pogna et al, 1989; Branlard et al, 2003;
Artemovka	Ukraine	2*/1	7+9/n7*+8ll	2+12/5+10	b/a, c/ah, a/d	Rabinovich et al, 2001; Rabinovich et al, 2000a;
Arthur	U.S.A.	1	7+8/7+9	5+10	a, b/c, d	Graybosh, 1992; Lookhart et al, 1993;
Arthur-71	U.S.A.	1	7+9	5+10	a, c, d	Lookhart et al, 1993;
Artois	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Artois-desprez	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Artus	Austria	null	7	2+12	c, a, a	Groger et al, 1997;
Aruba	Austria	null	6+8	null	c, d, i	Anon, 1998;
Arum	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Arval	France	null	6+8	5+10	c, d, d	Branlard et al, 2003;
Arz	Lebanon	2*	7+8	2+12	b, b, a	Tahir et al, 1995;

As	Norway	2*	7+9	2+12	b, c, a	Rabinovich et al, 2000b;
Asa-de-corvo	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Asakazekomugi	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Asiago	Italy	1	7+9	4+12/2+12	a, c, c/a	Pogna et al, 1989;
ASIO/3*BCN	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ASIO/3/F6.74/BUN//SIS	CIMMYT-7TH HRWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
ASP/BLT	CIMMYT-3RD FAWWYT	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
Aspirant	Germany	1	7	5+10	a, a, d	Masauskiene et al, 2002;
Asso	France	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985;
Asta	Czech Republic	null	7+9/6+8	5+10	c, c/d, d	Sasek et al, 1997;
Astana	Kazakhstan	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Astardo	Austria	1	7+9	5+10	a, c, d	Groger et al, 2005
Astella	Slovak Republic	2*/null	7+9	5+10	b/c, c, d	Gregova et al, 1997; Sasek et al, 1997;

Astral	France	null	7+8/7*+8	2+12	c, b/u, a	Branlard and Le Blank, 1985; Pogna et al, 1989;
Astron	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
ASU 13673	Afghanistan	null	7+8	10	c, b, m	Lagudah at al, 1987
ASU 13704	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 13723	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 13729	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 14539	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 14575	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 14589	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 14595	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 14616	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 14626	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 14653	Afghanistan	null	7+8	2.1+10	c, b, n	Lagudah at al, 1987

ASU 9943	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 9961	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 9978	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
ASU 9992	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
Ata-81	Turkey	null	7+9	5+10	c, c, d	Anon, 1998;
Atay-85	Turkey	2*	7	5+10	b, a, d	Sanal et al, 2005
Athena	Italy	null	77+8	-	, ab,	McIntosh et al, 1989; McIntosh et al, 1998;
Athlet	Germany	2*	6+8	5+10	b, d, d	Kazman and Lein, 1996; Sasek et al, 1997;
Athos	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;
Atila-12	Turkey	2*	7+9	5+10	b, c, d	Kazman and Lein, 2005
Atir	Israel	2*	7+8	2+12	b, b, a	Igrejas at al, 1999
Atlantis	Austria	1	6+8	2+12	a, d, a	Kazman and Lein, 1996; Groger et al, 1997;
Atlas-50	U.S.A.	1	6	3+12	a, an, b	Graybosh, 1992;

Atlas-66	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992; Lookhart et al, 1993; Rabinovich et al, 2000a;
Atou	France	null	7	3+12	c, a, b	Branlard and Le Blank, 1985;
Atrak	Iran	2*	7+9	5+10	b, c, d	Bahraei et al, 2004;
Atrium	Austria	1	7+9	5+10	a, c, d	Groger et al, 2005
ATTILA	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ATTILA	CIMMYT-30TH IBWSN	2*/1	7+9	5+10	b, c, d	Payne and Pena, 2006;
ATTILA//ALTAR 84/AOS/3/ATTILA	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ATTILA/3*BCN	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ATTILA/BCN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Attis	U.S.A.	1	14+15	2+12	a, h, a	Kazman and Lein, 1996;
AU/UP301/ /GLL/SX/3/PEW/4/MAI/MAYA/ /PEW/5/KEA/6/2*R37/GHL121/ /KAL/BB/3/BUC/BUL	CIMMYT-31ST IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Aubaine	France	2*	7+8	5+10	b, b, d	Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003;
Aube	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985;

Auburn	U.S.A.	1	7+9	5+10	a, c, d	Lookhart et al, 1993;
Augusta	Canada	1	7+9	2+12	a, c, a	Bushuk, 2006;
Augusta	U.S.A.	1	7+9	2+12	a, c, a	Ng and Pogna, 1989; Lookhart et al, 1993;
Augusto	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Augustus	Austria	null	6+8	2+12	c, d, a	Groger et al, 2005
Aura	Finland	2*	7+9	2+12	b, c, a	Cornish, 2005;
Aurelio	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Aurolus	Austria	2*	7+9	5+10	b, c, d	Groger et al, 2005
Aurus	Austria	1	6+8	5+10/2+12	a, d, d/a	Kazman and Lein, 1996; Groger et al, 1997;
AUS 13691	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
AUS 13696	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
AUS 13697	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987
AUS 13701	Afghanistan	null	7+8	2+12	c, b, a	Lagudah at al, 1987

AUS 13732	Afghanistan	null	7+8	2+12	c, b, a	Lagudah et al, 1987
AUS 13735	Afghanistan	null	7+8	2+12	c, b, a	Lagudah et al, 1987
AUS 14444	Afghanistan	null	8	2+12	c, aj, a	Lagudah et al, 1987
Austerlitz	France	2*	7+8	2+12	b, b, a	Branlard et al, 2003;
Austin	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Austro-bankut	Austria	1/null	7+9/7+8	2+12/3+12	a/c, c/b, a/b	Bedo and Lang, 1997;
Austro-bankut-grannen	Austria	1/null	7+9/7+8	2+12	a/c, c/b, a	Gregova et al, 1999;
Automne-rouge-barbu	France	1	7+9	5+10	a, c, d	Gregova et al, 1999;
Autonomia	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Autonomia-b	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Autonomia-m-16	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Avalanche	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
Avalon	U.K.	1	6+8	2+12/3+12	a, d, a/b	Branlard and Le Blank, 1985; Branlard et al, 2003;

Aviso	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;
Avle	Sweden	2*	7+9	5+10	b, c, d	Johansson et al, 1993;
Avocet	Australia	null	7+8	5+10	c, b, d	Cornish, 2005;
Avocet	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Avocet-a	Australia	null	7+8	2+12	c, b, a	Lawrence, 1986
Avocet-b	Australia	null	7+8	5+10	c, b, d	Lawrence, 1986
Avocet-c	Australia	1	20	2+12	a, e, a	Lawrence, 1986
Avril	France	2*	6+8/6	2+12	b, d/an, a	Rayfuse and Jones, 1993;
Avrora	Russia	null/2*	7+9	5+10/2+12	c/b, c, d/a	Morgunov et al, 1990; Ya, 1997; Anon, 1998; Rabinovich et al, 2000a;
Awatere	New Zealand	null	6+8	2+12	c, d, a	Griffin, 1994; Griffin et al, 2001;
Axel	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Axminster	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
Axona	Netherlands	null/1	14+15	5+10	c/a, h, d	Rabinovich et al, 2000b;

Aytin-85	Turkey	2*	7+8	2+12	b, b, a	Sanal et al, 2005
AZ//KAL/BB/3/PGO	CIMMYT-29TH IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Azadi	Iran	2*	b	2+12	b, b, a	Bahraei et al, 2004;
Azar	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
Azar2	Iran	2*	b	2+12	b, b, a	Bahraei et al, 2004;
Azeri	Azerbaijan	2*	7+9	5+12	b, c, h	Urazaliev,2003;
Aztec	U.S.A.	2*	6+8	2+12	b, d, a	Graybosh, 1992;
Azteca-f-67	Mexico	2*/1	17+18	5+10	b/a, i, d	Rabinovich et al, 2001;
Azulon	Portugal	null	6+8	3+12	c, d, b	Igrejas at al, 1999
B-237	Turkey	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993;
BABAX	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
BABAX	CIMMYT-4TH SAWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Babbler	Australia	2*	17+18	2+12	b, i, a	Wrigley et al, 2005

Baca	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992; Lookhart et al, 1993;
BACANORA T 88	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Bacanora-t-88	Mexico	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Backa	Yugoslavia	2*	7+9	5+10	b, c, d	Dencic and Borojevich, 2001;
Bacvanka-1	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Kolster et al, 19881;
Bacvanka-3	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Baganskaya-93	Russia	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Bagrationovskaya	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Bagudo	Portugal	1	23+18	-	a, p,	Vallega and Mello-Sampayo 1987;
BAGULA	CIMMYT-7TH HRWSN	2*	7+9/17+18	5+10/2+12	b, c/i, d/a	Payne and Pena, 2006;
BAGULA	CIMMYT-8TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Bahawalpur-79	Pakistan	2*	7+9	2+12	b, c, a	Tahir et al, 1995;
Baia-de-cris	Romania	1	7+8	2+12	a, b, a	Popa et al, 2004

Bainong 64	China	1	7+9	4+12	a, c, c	He et al, 2005;
Bainong-3217	China	1	7+8	2+12	a, b, a	Wang et al, 1993; He et al, 1992;
Baionette	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Baiquan-3039	China	1	7+8	2+12	a, b, a	Wang et al, 1993;
Baisoara-1	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Baiyu 149	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Baker's White	U.S.A.	1/2*	7+9	5+10	a/b, c, d	Shan et al, 2007;
Baldmin	Australia	1	20	5+10	a, e, d	Cornish, 2005
Baldus	Netherlands	null	7+8	2+12	c, b, a	Tohver et al, 2001, Tohner, 2007;
Balilla	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Balkan	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Dencic and Borojevich, 2001; Knezevic et al, 1993; Rabinovich et al, 2000a; Kolster et al, 19881; Dencic, 2001
Baltic	Germany	null	7	5+10	c, a, d	Kazman and Lein, 1996;
Banacanka-1	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Knezevic et al, 1993;

Banacanka-2	Yugoslavia	2*	7+9	5+9lu-5+10/2+12	b, c, Glu-d/a	Vapa, 1989; Knezevic et al, 1993; Bedo and Lang, 2005
Banatka	Hungary	1	7j/6+8/7+9	5+10	a, aj/d/c, d	Gregova et al, 1999; Gregova et al, 2004;
Banatka-niska	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Bandirma	Turkey	2*	7+9	2+12	b, c, a	Sanal et al, 2005
Bandit	U.K.	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;
Banga	Latvia	2*	7+9	2+12	b, c, a	Tohver et al, 2001, Tohner, 2007;
Bangasia	India	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Banija	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Dencic and Borojevich, 2001;
Banks	Australia	2*	7+8/7*+8	2+12	b, b/u, a	Anon, 1993c; Anon, 1998;
Bankuti	Hungary	2*	7+9	5+10	b, c, d	Soltes-Rak, 1991;
Bankuti-1201	Hungary	1/2*/q/u	7+9/7+8/OE7+8*	2+12	a/b/q/u, c/b/al, a	Bedo and Lang, 1997; McIntosh et al, 2002; Bedo and Lang, 2005
Bankuti-1205	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 1997; Bedo and Lang, 2005
Bankuti-5	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 1997; Bedo and Lang, 2005

Bansi-103	India	2*	20	-	b, e, -	Oak et al, 2004;
Bansi-162	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Bansi168(Motia)	India	null	20	-	c, e, -	Oak et al, 2004;
Bansi-207-3	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Bansi-224(Gulab)	India	null	20	-	c, e, -	Oak et al, 2004;
Bansi-290	India	null	20	-	c, e, -	Oak et al, 2004;
Barani-70	Pakistan	1	14	2+12*	a, 14, j	Tahir et al, 1995;
Baranjka	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989; Knezevic et al, 1993;
Barba-de-lobo	Portugal	1	6+8	-	a, d,	Vallega and Mello-Sampayo 1987;
Barbara	Croatia	null	7+8	2+12	c, b, a	Jurkovic et al, 2000; Horvat et al, 2002;
Barbara	Slovak Republic	1/null	7+9	5+10	a/c, c, d	Gregova et al, 1997; Galova et al, 2001
Barbee	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Barbela	Portugal	2*/null	13+16/20	2+12	b/c, f/e, a	Nashimento et al, 1998;

Barbilla	Spain	1	13+16	2+12	a, f, a	Ruiz et al, 2002;
Barbilla(salamanca)	Spain	1	13+16	2+12	a, f, a	Ruiz et al, 2002;
Barbilla-blanca	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Barbilla-carbajales-de-alba	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Barbilla-de-alcanices	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Barbilla-roja	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Barbu-du-maconnais	France	null	6+8	2+12	c, d, a	Gregova et al, 1999;
Barbu-du-tronchet	Chile	null	7+8/6+8	2+12	c, b/d, a	Gregova et al, 1999;
Barco	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Baron	U.K.	1	6+8	2+12	a, d, a	Cornish, 2005;
Baroota-wonder	Australia	1/2*	20/17+18	2+12	a/b, e/i, a	Cornish, 2005
Baroudeur	France	null	7+9	2+12	c, c, a	Branlard et al, 2003;
BART/BUL	CIMMYT-17TH ESWYT	2*	17+18	2+12/5+10	b, i, a/d	Payne and Pena, 2006;

Barunga	Australia	1	7+8	5+10	a, b, d	Cornish, 2005;
Basalt	Germany	null	7	2+12	c, a, a	Rogers et al, 1989;
Bashkirskaya-22	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Bashkirskaya-24	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Rabinovich et al, 2001;
Bashkirskaya-4	Russia	2*/null	7+9	2+12	b/c, c, a	Rabinovich et al, 2001;
Basribey-95	Turkey	2*	7+9	5+10	b, c, d	Sanal et al, 2005
Bass	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005;
Bastian	Norway	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b; Branlard et al, 2003;
Bastion	Netherlands	1	7+9	2+12	a, c, a	Kolster et al, 1993; Anon, 1998;
Batavia	Australia	1	7+8	2+12/5+10	a, b, a/d	Anon, 1993c; Anon, 1998; Wrigley et al, 2005
BATERA	CIMMYT-3RD FAWWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Batera	Mexico	1	7+9	2+12	a, c, a	Rabinovich et al, 2000b;
Batis	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;

Batten	New Zealand	2*	7+9	5+10	b, c, d	Griffin, 1994; Griffin et al, 2001;
BAU//BJY/COC	CIMMYT-16TH SAWSN	2*	7+9/17+18	5+10	b, c/i, d	Payne and Pena, 2006;
BAU//PRL/VEE#6	CIMMYT-16TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
BAU//PRL/VEE#6	CIMMYT-6TH SAWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
BAU//KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BAU//KAUZ//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BAU//MILAN	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BAU//OPATA	CIMMYT-14TH SAWSN	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
BAU//OPATA	CIMMYT-4TH SAWYT	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
BAU//SERI	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
BAU//SERI	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Bau-146	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Bau-402	China	2*	13+16	5+10	b, f, d	Galova et al, 2001

Baviacora	Australia	2*	7+9	5+10	b, c, d	Cornish, 2007;
BAVIACORA M 92	CIMMYT-6TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BAW898	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Baxi 6-1-1	India	2*	20	-	b, e, -	Oak et al, 2004;
Baxi-112	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
Baxi-288-18	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Baxter	Australia	1	13+16	2+12	a, f, a	Cornish, 2005
Bayat	Iran	2*	17+18	2+12	b, i, a	Bahraei et al, 2004;
Bayonet	Australia	1	7+8/17+18	2+12	a, b/i, a	Cornish, 2005;
Bayonet-a	Australia	1	7+8	2+12	a, b, a	Lawrence, 1986
Bayonet-b	Australia	1	17+18	2+12	a, i, a	Lawrence, 1986
Bazalt	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
BB/ /TOB/CNO67/3/HUAC/4/TI-R/3/BB/PL/ /SX	CIMMYT-15TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;

Bc-3546-62	Yugoslavia	2*	7+9/20	5+10/2+12	b, c/e, d/a	Rayfuse and Jones, 1993;
BCN.R.1	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BD-159	Australia	2*	7+8	2+12/5+10	b, b, a/d	Cornish, 2005;
BD-231	Australia	1	20	5+10	a, e, d	Cornish, 2005;
BDME 9	Turkey/Tajikistan	1	7*+8	5+10	a, u, d	Bekes et al 2008
Bdme-9	Turkey	2*	7*+8	2+12	b, u, a	Urazaliev,2003;
Beacon	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Beau	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Beauchamp	France	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Beaufort	France	1	6+8	3+12	a, d, b	Cornish, 2005;
Beaufort	U.K.	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;
Beaver	U.K.	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Branlard et al, 2003;
Becejka	Yugoslavia	null	7+9	2+12	c, c, a	Vapa, 1989; Knezevic et al, 1993; Anon, 1998;

Begra	Poland	null	7+9	5+10	, c, d	Waga, 1992;
Beijing-11	China	null	7+8	2+12	c, b, a	Soltes-Rak, 1991;
Beijing-14	China	null	6+8	2+12	c, d, a	Wang et al, 1993;
Beijing-15	China	null	20	-	, e,	Nakamura, 2000b;
Beijing-8	China	null	7+8	2+12/5+10	c, b, a	Wang et al, 1993;
Beijing-837	China	null	7+9	2+12	c, c, a	He et al, 1992;
Beijing-841	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
BEIJING89 1941/3/793.3402/ /BUC/PVN	CIMMYT-8TH HRWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Beijingbai	China	null	17+18	2.2+12	, i, f	Nakamura, 2000b;
Beilong-2	China	null	7+9	2+12	c, c, a	He et al, 1992;
Beilong-837	China	null	7+9	2+12	c, c, a	He et al, 1992;
Bekaa	Lebanon	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;
BEKELE.100,153	CIMMYT-8TH HRWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;

BEKELE.100,244	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Beladi-45	Beladi-45	null	VIII.	-	c, y,	Anon, 1989; Vallega, 1988;
Belaviso	France	null	7+8	2+12	c, b, a	Branlard et al, 2003;
Belfield	Netherlands	1	7/7+9	5+10	a, a/c, d	Griffin et al, 2001; Cornish, 2005
Belgorodskaya	Russia	null	7+9/6+8	5+10/2+12	c, c/d, d/a	Cerny, et al 1989;
Belgorodskaya-5	Russia	2*/1	7+9	5+10	b/a, c, d	Ya, 1997;
Belinda	U.S.A.	2*	7+9	5+10	b, c, d	Cornish, 2005;
Beliouni (CItr-3839)	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Beliouni (CItr-3842)	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Beliouni (CItr-3848)	Algeria	1	6+8	-	a, d, -	Carillo et al, 2005;
Beliouni (CItr-3852)	Algeria	1	6+8	-	a, d, -	Carillo et al, 2005;
Beliouni (CItr-4025)	Algeria	1	6+8	-	a, d, -	Carillo et al, 2005;
Belisar	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997;

Belmondo	Austria	null	6+8	5+10	c, d, d	Groger et al, 2005
Belorusskaya-12	Bulgaria	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Belotserkovskaya-198	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
Belotserkovskaya-polukarlikovaya	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
Belvedere	Canada	1	7*+8/7+8	2+12	a, u/b, a	Ng and Pogna, 1989; Anon, 1998;
Belvedere	France	1	7+8	2+12	a, b, a	Cornish, 2005
Belvedere	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Belyanka	Russia	2*	7+9	2+12	b, c, a	Panin, 1999;
Bencubbin	Australia	2*	7+9	2+12	b, c, a	Cornish, 2005;
Benito	Canada	2*/1	7+9	5+10	b/a, c, d	Bushuk, 1997; Anon, 1998; Ng and Pogna, 1989;
Bennett	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993;
Beogradanka	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Bercy	Netherlands	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;

Bergen	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Bergers-gelber-dickkopf-1	Germany	null	6+8/7+9	2+12	c, d/c, a	Gregova et al, 2004;
Bergland	Austria	null/1	7+8/7+9	5+10	c/a, b/c, d	Gregova et al, 1999;
Berillo	Italy	null	20	-	c, e,	Vallega and Waines, 1987; Anon, 1998;
Berlioz	France	null	7	2+12	c, a, a	Branlard et al, 2003;
Bermet	Kyrgyzstan	null	7+9	2+10	c, c, e	Urazaliev,2003;
Bert	U.K.	null	6+8	2+12	c, d, a	Rogers et al, 1989;
Beta-bankuti	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005
Betres	Spain	2*	17+18	5+10	b, i, d	Cornish, 2005;
Betta	South Africa	1	7+9	5+10	a, c, d	Cornish, 2005;
Betty	U.S.A.	1	7+8	5+10	a, b, d	Pike and MacRitchie, 2004;
Beulah	Australia	2*	7+8/7*+8	2+12	b, b/u, a	Anon, 1998; Wrigley et al, 2005
Bezenchukskaya-380	Russia	1	7+9	5+10	a, c, d	Ya, 1997;

Bezenchukskaya-98	Russia	2*	7+9	5+10/2+12	b, c, d/a	Morgunov et al, 1990; Bespalov, 1994;
Bezim	Russia	2*/null	7+8/7+9	2+12	b/c, b/c, a	Rabinovich et al, 2001;
Bezosinna-cervena-perla	Czech Republic	null	20	3+12	c, e, b	Gregova et al, 1997;
Bezostaya-1	Russia	2*	7+9	5+10	b, c, d	Graybosh, 1992; Soltes-Rak, 1991; Borojevic, 1990; Morgunov et al, 1990; Ya, 1997; Anon, 1998
Bg-1943	Spain	null	32+33	-	, aq,	McIntosh et al, 1991; McIntosh et al, 1998;
Bg-2013	Spain	null	6	-	, an,	McIntosh et al, 1991; McIntosh et al, 1998;
Bg-3545	Spain	null	7+17	-	, ao,	McIntosh et al, 1991; McIntosh et al, 1998;
BH 24968	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
BH 25076	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
BH 25077	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
BH 25110	Finland	2*	6+8	5+10	b, d, d	Tohver et al, 2001, Tohner, 2007;
BH 25114	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
BH 25170	Finland	2*	14+15	5+10	b, h, d	Tohver et al, 2001, Tohner, 2007;

BH 25177	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
BH 25225	Finland	2*	7+8	5+10	b, b, d	Tohver et al, 2001, Tohner, 2007;
BH 25229	Finland	2*	14+15	2+12	b, h, a	Tohver et al, 2001, Tohner, 2007;
BH 25341	Finland	null	7+8	2+12	c, b, a	Tohver et al, 2001, Tohner, 2007;
BH 25357	Finland	null	7+8	2+12	c, b, a	Tohver et al, 2001, Tohner, 2007;
BH 25372	Finland	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
BH 25450	Finland	1	7+8	5+10	a, b, d	Tohver et al, 2001, Tohner, 2007;
Bh-23843	Estonia	2*	7+8	5+10	b, b, d	Tohver et al, 2001;
Bh-24774	Estonia	2*	7+8	5+10	b, b, d	Tohver et al, 2001;
Bh-24775	Estonia	2*	7+8	5+10	b, b, d	Tohver et al, 2001;
Bh-24785	Estonia	1	7+8	5+10	a, b, d	Tohver et al, 2001;
Bh-24958	Estonia	2*	7+8	5+10	b, b, d	Tohver et al, 2001;
Bh-24968	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;

Bh-25076	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25077	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25085	Estonia	2*	7+8	5+10	b, b, d	Tohver et al, 2001;
Bh-25110	Estonia	2*	6+8	5+10	b, d, d	Tohver et al, 2001;
Bh-25114	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25124	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25138	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25170	Estonia	2*	6+8/14+15	5+10	b, d/h, d	Tohver et al, 2001;
Bh-25173	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25177	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25195	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25202	Estonia	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Bh-25225	Estonia	2*	7+8	5+10	b, b, d	Tohver et al, 2001;

Bh-25229	Estonia	2*	14+15	2+12	b, h, a	Tohver et al, 2001;
Bh-25341	Estonia	null	7+8	2+12	c, b, a	Tohver et al, 2001;
Bh-25372	Estonia	2*	7+9	5+10	b, c, d	Tohver et al, 2001;
Bh-25450	Estonia	1	7+8	5+10	a, b, d	Tohver et al, 2001;
Bhalegaon-3	India	null	20	-	c, e, -	Oak et al, 2004;
Bhalegaon-4	India	null	20	-	c, e, -	Oak et al, 2004;
Bidi 17	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Bidi 17 (PI-263415)	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Bidi 17 (PI-352409)	Algeria	null	20/7+8	-	c, e/b, -	Carillo et al, 2005;
Bidi-17	Algeria	null	20	-	c, e,	Branlard and Le Blank, 1985;
Big-club	U.S.A.	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
Big-club-37	U.S.A.	2*	6	2+12	b, an, a	Rayfuse and Jones, 1993;
Big-club-43	U.S.A.	2*	6/7	2+12	b, an/a, a	Rayfuse and Jones, 1993;

Big-club-60	U.S.A.	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
Biggar	Canada	1	7+8/OE7+8*	2+12	a, b/a, a	Anon, 1998; Cornish, 2005
Biggar (HY 368)	Canada	1	7+8	2+12	a, b, a	Bushuk, 2006;
Big-head	China	1	7	2+12	a, a, a	Rayfuse and Jones, 1993;
Bihar-124	India	2*	17+18	2+12*	b, i, j	Anon, 1998;
Bijaga Red	India	null	20	-	c, e, -	Oak et al, 2004;
Bijaga Yellow	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
Bijapur 370-4	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Bijapur 487-2	India	1	6 + 8	-	a, d, -	Oak et al, 2004;
Bilancia	Italy	1	7	5+10	a, a, d	Chunin, 1991; Perenzin et al, 1997;
Bila-od-dukovan	Czech Republic	1	7+9	2+12/4+12	a, c, a/c	Gregova et al, 1999;
Bilbo	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Bill	Germany	null	7+9	2+12	c, c, a	Tohver et al, 2001, Tohner, 2007;

Bilotserkivska-198	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
Bilotserkivska-napivkarlikova	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
Bima-1	China	null	7+8	5+9	c, b, g	Xue-Yong et al, 2002
Bima-4	China	null	7+8	2+10	c, b, e	Xue-Yong et al, 2002
Bima-5	China	null	7+8	2+12	c, b, a	Khan et al, 1989
Bimai-5	China	null	7+8	2+12	c, b, a	He et al, 1992;
Bindawarra	Australia	1/null	7+9	2+12	a/c, c, a	Cornish, 2005; Anon, 1993c;
Bindawarra-a	Australia	1	7+9	2+12	a, c, a	Lawrence, 1986
Bindawarra-b	Australia	null	7+9	2+12	c, c, a	Lawrence, 1986
Biodur	Germany	null	6+8	null	c, d, i	Anon, 1998;
Biondo	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Birlik	Azerbaijan	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Biserka	Yugoslavia	1	7+8	2+12	a, b, a	Vapa, 1989; Borojevic, 1990; Rabinovich et al, 2000a; Kolster et al, 19881; Vapa and Sanic, 1988;

Bishop	Canada	1	7+8	5+9	a, b, g	Anon, 1998;
Biskri (Cltr-7084)	Algeria	null	13+16/20	-	c, f/e, -	Carillo et al, 2005;
Bison	France	null	7+9	2+12	c, c, a	Branlard et al, 2003;
Bison	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Bistra	Croatia	1	20	2+12	a, e, a	Vapa, 1989;
Bistrita	Romania	null	7+9	2+12	c, c, a	Popa et al, 2004
Bitia	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Bjørke	Sweden	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
BJY/COC//2*JUP/BJY	CIMMYT-29TH IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
BJY/COC//PRL/BOW	CIMMYT-6TH SAWYT	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
BI-1022	Nepal	1	17+18	5+10	a, i, d	Rabinovich et al, 2001;
Blackhawk	U.S.A.	2*	6+8/7+9	5+10	b, d/c, d	Graybosh, 1992;
Blackhull	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992; Rabinovich et al, 2000b;

Blade	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005; Anon, 1993c;
Bladette-de-poylaurens	France	null	7/7+8	2+12	c, a/b, a	Gregova et al, 2004;
Blanc-d-arnay-le-duc	France	1	20	2+12	a, e, a	Gregova et al, 2004;
Blanc-de-lorraine	France	null	7+8	2+12	c, b, a	Gregova et al, 2004;
Blanco	Australia	2*	7+9	5+10	b, c, d	Cornish, 2007;
Blanquillo(albacete)	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;
Blanquillo(caceres)	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Blanquillo(caceres)	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Blanquillo(toledo)	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Blanquillo(toledo)	Spain	null	13+16	2+12	c, f, a	Ruiz et al, 2002;
Blanquillo-de-barcarrota	Spain	1	20	4+12	a, e, c	Ruiz et al, 2002;
Blason	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Blava	Slovak Republic	null	7+9	5+10	c, c, d	Gregova et al, 1997; Sasek et al, 1997;

Blazer	U.S.A.	2*	17+18	5+10	b, i, d	Graybosh, 1992;
Ble de Seville (Cltr-3847)	Algeria	null	14+15	-	c, h, -	Carillo et al, 2005;
Ble-blanc-a-duvet	France	1/null/2*	7+9/6+8	2+12/5+10	a/c/b, c/d, a/d	Gregova et al, 2004;
Ble-des-vosges	France	null	7+8/6+8	2+12	c, b/d, a	Gregova et al, 1999;
Bledsoe	U.S.A.	null	7	2+12	c, a, a	Graybosh, 1992;
Bleroy	France	1	7+8	2+11	a, b, q	Branlard and Le Blank, 1985;
Ble-tendre-2288	Tunesia	k	7+11	5+9	k, s, g	McIntosh et al, 1990; McIntosh et al, 1993;
Ble-tendre-2288-a	Tunesia	2*	7+9	5+10	b, c, d	Anon, 1998;
Ble-tendre-501	Tunesia	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;
Blizzard	U.S.A.	null	13+16	-	, f,	Anon, 1995;
Blondur	France	null	20	-	c, e,	Branlard and Le Blank, 1985;
Blue Sky	Canada	2*	7+8/OE7+8*	5+10	b, b/al, d	Ng and Pogna, 1989; Anon, 1998; Cornish, 2005
Bluebird	Australia	1	17+18	5+10	a, i, d	Cornish, 2007;

Bluebird	Mexico	1	17+18	5+10	a, i, d	Cornish, 2005;
Bluebird-inia	Mexico	1	13+16	5+10	a, f, d	Cornish, 2005;
Blueboy	U.S.A.	null	7+9	2+12	c, c, a	Graybosh, 1992;
Blue-chaff-club	U.S.A.	null	20	2+12	c, e, a	Rayfuse and Jones, 1993;
Blue-jacket	U.S.A.	2*	7+9	3+12	b, c, b	Graybosh, 1992;
Blue-silver	Pakistan	2*	7+9	2+12	b, c, a	Tahir et al, 1995;
BN-125	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-138	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-139	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-140	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-141	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-142	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-155	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;

BN-156	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-157	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-159	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-160	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BN-197	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
Boai-7023	China	1	20	2+12	a, e, a	He et al, 1992;
Boai-74-22	China	null	20	2+12	c, e, a	He et al, 1992;
Bobs	Australia	1/2*	7+9	5+10	a/b, c, d	Cornish, 2005
Bobwhite-s	Mexico	2*	17+18/7+9	5+10	b, i/c, d	Cornish, 2005;
Bocquiau	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985;
BOCRO	CIMMYT-15TH SAWSN	2*	17+18/7+9	2+12	b, i/c, a	Payne and Pena, 2006;
BOCRO 1	CIMMYT-14TH SAWSN	2*	7+9/17+18	2+12	b, c/i, a	Payne and Pena, 2006;
BOCRO 1	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

Bodallin	Australia	2*	17+18	4+12/5+10	b, i, c/d	Lawrence, 1986
Boevshanka	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Bogarnaya-56	Kazakhstan	2*	7+9/s	5+10/2+12	b, c/s, d/a	Morgunov et al, 1990; Absattarova, 2005; Urazaliev,2003;
Bogrin	France	null	6+8	5+10	c, d, d	Branlard and Le Blank, 1985;
Boheme	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 2005
Boka	Czech Republic	null	7+9	5+10	c, c, d	Gregova et al, 1997; Sasek et al, 1997;
Bokal	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Bola-blanca	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Bold	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Bolero	France	2*	7+9	2+12	b, c, a	Pogna et al, 1989; Anon. 1993d;
Bonaerense-pasuco	Argentina	2*	7+8	2+12	b, b, a	Gianibelli et al, 2002;
Bonaerense-pericon	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Bond CL	U.S.A.	2*	7+8	3+12	b, b, b	Shan et al, 2007;

Bonitus	Austria	null	6+8	5+10	c, d, d	Groger et al, 2005
Bonnierock	Australia	1	17+18	2+12	a, i, a	Cornish, 2007;
Bonong-7023	China	1	7	5+9	a, a, g	Xue-Yong et al, 2002
Bonong-74-22	China	null	7+8	5+9	c, b, g	Xue-Yong et al, 2002
Bonpain	France	2*	17+18	5+10	b, i, d	Igrejas at al, 1999
Bontaris	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
BOR 23843	Finland	2*	7+8	5+10	b, b, d	Tohver et al, 2001, Tohner, 2007;
BOR 24785	Finland	1	7+8	5+10	a, b, d	Tohver et al, 2001, Tohner, 2007;
BOR 24968	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
BOR 25170	Finland	2*	6+8	5+10	b, d, d	Tohver et al, 2001, Tohner, 2007;
Borah	U.S.A.	2*	7+9	5+10	b, c, d	McLendon et al, 1993;
Bordan	Australia	1	20	2+12	a, e, a	Cornish, 2005
Borden	Canada	1	7+9	5+10	a, c, d	Ng and Pogna, 1989; Anon, 1998;

Bordenave-puan-sag	Argentina	2*/1/null	OE7+8*/7+8	5+10/2+12	b/a/c, al/b, d/a	Gianibelli et al, 2002; Dubcovsky et al, 2004
Bordenave-pulan	Argentina	2*/1	OE7+8*	5+10	b/a, al, d	Dubcovsky et al, 2003
Boreal	France	null	6+8	5+10	c, d, d	Branlard et al, 2003;
Borenos	Germany	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Borlaug	Mexico	1	7+9	5+10	a, c, d	Cavanagh, 2005
BORLAUG M 95	CIMMYT-17TH ESWYT	1/2*	7+8	5+10/2+12	a/b, b, d/a	Payne and Pena, 2006;
BORLAUG M 95	CIMMYT-29TH IBWSN	2*/1	7+9/7+8	5+10	b, c/b, d	Payne and Pena, 2006;
Borlaug-m-95	Mexico	2*/1	7+9/7+8	5+10	b/a, c/b, d	Rabinovich et al, 2000b;
Borsum	Norway	2*	7+8/7+9	2+12/5+10	b, b/c, a/d	Rabinovich et al, 2000b; Uhlen, 1990
Bosanka	Yugoslavia	1	7+8	2+12	a, b, a	Vapa, 1989;
Botanicheskaya-3	Russia	2*	7+8	5+10	b, b, d	Morgunov et al, 1990; Rabinovich et al, 2001;
Botanicheskaya-4	Russia	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Botiza	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004

Botiza-2	Romania	null	7+8	5+10	c, b, d	Popa et al, 2004
Boulmiche	France	null	7	4+12	c, a, c	Branlard and Le Blank, 1985;
Bounty	U.K.	1	7	2+12	a, a, a	Cornish, 2005;
Bounty-208	U.S.A.	2*/1	17+18	5+10	b/a, i, d	Rabinovich et al, 2001;
Bounty-Vapa, 1989	U.S.A.	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;
Bouquet	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985;
Bovictus	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
BOW//BUC/BUL	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BOW//BUC/BUL	CIMMYT-8TH HRWSN	1	7+8	5+10	a, b, d	Payne and Pena, 2006;
BOW//BUC/BUL/3/KAUZ	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BOW//BUC/BUL/3/KAUZ	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BOW//TTR/BOW	CIMMYT-30TH IBWSN	1/2*	7+9	5+10	a/b, c, d	Payne and Pena, 2006;
BOW//VRE/VEE	CIMMYT-30TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;

BOW/CROW	CIMMYT-15TH SAWSN	2*	17+18	5+10/2+12	b, i, d/a	Payne and Pena, 2006;
BOW/CROW/ /BUC/PVN/3/2*VEE#10	CIMMYT-29TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
BOW/CROW/ /BUC/PVN/3/2*VEE#10	CIMMYT-29TH IBWSN	1/2*	7+9	5+10	a/b, c, d	Payne and Pena, 2006;
BOW/CROW//BUC/PVN/3/YR	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BOW/CROW//BUC/PVN/3/YR	CIMMYT-29TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
BOW/FGK15	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BOW/GEN//KAUZ	CIMMYT-16TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
BOW/PRL*3/6/WRM/4/FN/3*TH/ /K58/2*N/3/AUS-6869/5/PELOTAS- ARTHUR	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
BOW/PRL//BUC	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BOW/PRL//BUC/3/STAR	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
BOW/URES//2*WEAVER	CIMMYT-30TH IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
BOW/URES//2*WEAVER	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
BOW/URES//2*WEAVER	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

BOW/URES//KEA/3/MO88	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
BOW/VEE	CIMMYT-14TH SAWSN	null/2*	7+9	2+12	c/b, c, a	Payne and Pena, 2006;
Bowerbird	Australia	1	17+18	2+12	a, i, a	Wrigley et al, 2005
Bowie	Australia	1	7+9	2+12	a, c, a	Wrigley et al, 2005
Boxer	U.K.	null	6+8	2+12	c, d, a	Rogers et al, 1989;
BR10*2/TP//DOVE/BUC	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BR-10-formosa	Brazil	null	17+18	5+10	c, i, d	Schuster et al, 1997
BR12*3/4//IAS55*4/CI14123/3//IAS55*4/EG, AUS/ //IAS55*4	CIMMYT-7TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
BR12*4//BH1146*6/ALD	CIMMYT-29TH IBWSN	2*/1	7+9	2+12	b, c, a	Payne and Pena, 2006;
BR14*4//LD*6/CI14123	CIMMYT-7TH HRWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
BR14/CEP847	CIMMYT-7TH HRWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
BR-18-terena	Brazil	1	17+18	5+10	a, i, d	Schuster et al, 1997
BR-23	Brazil	null	17+18	2+12	c, i, a	Schuster et al, 1997

BR23/CEP13	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
BR-26-sao-gotardo	Brazil	1/ 2*	7+9	5+10	a/ b, c, d	Schuster et al, 1997
BR-33-cuara	Brazil	1/2*	7+9	5+10/2+12	a/b, c, d/a	Schuster et al, 1997
BR-40-tuiuca	Brazil	1	7+8	5+10	a, b, d	
Braco	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Braewood	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
Branco	Portugal	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Branka	Czech Republic	1	7+9	5+10	a, c, d	Sasek et al, 1987; Gregova et al, 1997;
Brasilia	Italy	null	7+9	2+12	c, c, a	Pogna et al, 1989; Anon. 1993d;
Brauner-fuchs	Germany	1	7+9	5+10	a, c, d	Gregova et al, 1999;
Brea	Czech Republic	null	7+9	5+10	c, c, d	Sasek et al, 1997;
Breisgauer-glatter-land	Germany	1	7+9	5+10/2+12	a, c, d/a	Gregova et al, 1999;
Brennan	Australia	null	6+8	5+10	c, d, d	Wrigley et al, 2005

Brennus	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985;
Bretcu	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Brevor	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992; Rabinovich et al, 2000a;
Bridger	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Brigadier	U.K.	null	6+8	3+12	c, d, b	Kazman and Lein, 1996;
Brigand	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Brigantina	Ukraine	2*	6+8/7+8	5+10	b, d/b, d	Stoeva et al, 1997;
Brimstone	U.K.	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Briz	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Brochis-s	Mexico	1	13+16	2+12	a, f, a	Cornish, 2005;
Brock	U.K.	null	7/7+9	4+12/3+12	c, a/c, c/b	Kazman and Lein, 1996; Griffin et al, 2001; Anon, 1998;
Brokat	Austria	null	6+8/7+9	5+10/2+12	c, d/c, d/a	Groger et al, 1997; Waga, 1992; Groger et al, 1997
Bronze	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;

Bronze-chief	U.S.A.	1	7+8	5+10	a, b, d	Cornish, 2005;
Brookton	Australia	2*	17+18	2+12	b, i, a	Wrigley et al, 2005
Broom	U.K.	null	7+9	5+10	c, c, d	Anon, 1998;
Brs-119	Brazil	2*	7+8/7*+8	5+10	b, b/u, d	Souza et al, 1998; Vozquez et al, 2003
Brs-120	Brazil	2*	7+9	5+10	b, c, d	Souza et al, 1998;
Brule	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993;
Brumaire	France	null	6+8(?)	-	c, d(?),	Branlard and Le Blank, 1985;
Brunda	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Bruneta	Czech Republic	null	7+9	5+10	c, c, d	Sasek et al, 1997;
Bruta	Czech Republic	null	7+9/6+8	5+10	c, c/d, d	Gregova et al, 1997; Sasek et al, 1997;
Brutus	Austria	2*	7+9	5+10	b, c, d	Groger et al, 1997;
Brutus	U.K.	1	17+18	5+10	a, i, d	Cornish, 2005;
Bryden	U.K.	null	6+8	3+12	c, d, b	Cornish, 2005;

BSP 93.21	CIMMYT-30TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
BSP 93.9	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Bt-3288	U.K.	null	-	5+9	, , g	McIntosh et al, 1990;
Bt-schomburgk	Australia	1	7+9/7+8/7*+8	2+12/5+10	a, c/b/u, a/d	Anon, 1993c;
BUC/BJY	CIMMYT-14TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
BUC/BJY//WEAVER	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
BUC/CELTA//TURACO	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
BUC/CHRC//PRL/VEE#6	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
BUC/CHRC//PRL/VEE#6	CIMMYT-15TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
BUC/MN72253	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
BUC/MOR//FALKE	CIMMYT-15TH SAWSN	1	13+16	2+12	a, f, a	Payne and Pena, 2006;
Bucianska-16-438	Slovak Republic	1	7+9	3+12	a, c, b	Gregova et al, 1997;
Bucianska-202	Slovak Republic	1	7+9	3+12	a, c, b	Gregova et al, 1997;

Bucianska-316-515	Slovak Republic	null	7+9	3+12	c, c, b	Gregova et al, 1997;
Buck-Arriero	Argentina	1	7+8	5+10	a, b, d	Vozquez et al, 2003
Buck-Atlantico	Argentina	2*	7*+9/7+9	5+10	b, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Buck-Bagual	Argentina	2*	7+8/7*+9/7+9	5+10	b, b/v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Buck-Brasil	Argentina	1	OE7+8	5+10	c, al, d	Liu et al 2008
Buck-Candil	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Buck-Catriel	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002;
Buck-Caudillo	Argentina	2*	7+8	5+10	b, b, d	Vozquez et al, 2003
Buck-Cencerro	Argentina	2*	7*+9/7+9	5+10	b, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Buck-Charrua	Argentina	2*	OE7+8*7+9	2+12	b, al/c, a	Gianibelli et al, 2002; Dubcovsky et al, 2004
Buck-Cimarron	Argentina	2*	7+8	5+10	b, b, d	Gianibelli et al, 2002;
Buck-Fogon	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002;
Buck-Guaran	Argentina	2*	17+18	5+10	b, i, d	Dubcovsky et al, 2004

Buck-Guarani	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Buckley	Australia	1	7+9	2+12	a, c, a	Wrigley et al, 2005
Buck-Manantial	Argentina	2*	7+8	5+10	b, b, d	Feingold and Hopp, 1991; 2349; Gianibelli et al, 2002;
Buck-Mapuche	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Buck-Mejorpán	Argentina	2*	OE7+8	5+10	c, al, d	Liu et al 2008
Buck-Namuncura	Argentina	2*	7+8	5+10	b, b, d	Gianibelli et al, 2002;
Buck-Nandu	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Buck-Naposta	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002; Vozquez et al, 2003
Buck-Napuca	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Buck-Ombu	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Buck-Palenque	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Buck-Pampero	Argentina	1	7*+9/7+9	5+10/2+12	a, v/c, d/a	Gianibelli et al, 2002; Dubcovsky et al, 2004
Buck-Panadero	Argentina	2*	7*+8	5+10	b, u, d	Vozquez et al, 2003

Buck-Pangare	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Buck-Patacon	Argentina	1	17+18	5+10	a, i, d	Gianibelli et al, 2002;
Buck-Pingo	Argentina	1	17+18	5+10	c, i, d	Liu et al 2008
Buck-Poncho	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002;
Buck-Pronto	Argentina	2*	7+8	5+10	b, b, d	Vozquez et al, 2003
Buck-Pucara	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Buckskin	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993;
Buck-Yapeyu	Uruguay	1	17+18	5+10	a, i, d	Gianibelli et al, 2002;
Buck-Yatasto	Argentina	1	7+8	5+10	a, b, d	Vozquez et al, 2003
Budimir	Russia	2*	7+8/17+18	2+12	b, b/i, a	Rabinovich et al, 2001; Rabinovich et al, 2000a;
Bufalo	France	1	7+8	5+10	a, b, d	Igrejas at al, 1999
Buffum	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Bulava	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008

Bulbul	Pakistan	2*	17+18	2+12	b, i, a	Rabinovich et al, 2001;
Bulgarian-iii	Bulgaria	1	20	-	a, e,	Vallega, 1988; Anon, 1989;
BULL_2/2*TUI	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Bullet	U.S.A.	1	17+18	5+10	a, i, d	Shan et al, 2007;
Bungulla	Australia	2*	7+9	2+12	b, c, a	Anon, 1998;
Bunyip	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Burchett	U.S.A.	2*	7+9	2+12	b, c, a	Shan et al, 2007;
Burevestnik-odesskii	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Burgas-2	Bulgaria	1	17+18	5+10	a, i, d	Cornish, 2005;
BURI//GLEN/TTM	CIMMYT-31ST IBWSN	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
BURRION	CIMMYT-7TH HRWSN	2*	6+8	2+12	b, d, a	Payne and Pena, 2006;
Buryatskaya	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Buryatskaya-79	Russia	2*	7+9	5+10/2+12	b, c, d/a	Morgunov et al, 1990; Bespalov, 1994;

Bussard	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
But	France	null	7	2+12	c, a, a	Branlard et al, 2003;
Butin	Italy	null/2*	7+9	2+12/5+10	c/b, c, a/d	Pogna et al, 1989;
Butin	Slovak Republic	2*	7+9	5+10	b, c, d	Gregova et al, 1997;
Butler	U.K.	null	20	2+12	, e, a	Cornish, 2005;
Butler	U.S.A.	1	6+8	3+12	a, d, b	Graybosh, 1992;
Butte	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993; Dubuc and Boudreau, 1992;
Butte-86	U.S.A.	2*	7+9	5+10	b, c, d	Cornish, 2005;
Buyan	Russia	2*/null	7+8/7+9	2+12	b/c, b/c, a	Rabinovich et al, 2001;
BW 120 (AC Minto)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
BW 148 (AC Domain)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
BW 152 (AC Cora)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
BW 155 (ND 640)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;

BW 173 (AC Majestic)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
BW 173 (AC Majestic)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
BW 198 (ND 671)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
BW-198	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-508	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-552	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-553	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-599	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-618	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-623	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-627	Canada	2*	6+8	5+10	b, d, d	Anon, 1998;
BW-630	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
BW-632	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;

Bystritsa	Russia	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2000a;
C-271	India	1	20/7	2+12	a, e/a, a	Cornish, 2005;
C-273	India	1/2*	13+19/17+18	2+12/5+10	a/b, g/i, a/d	Tahir et al, 1995; Rabinovich et al, 2001; Bhagwat and Bhatia, 1988;
C306	India	null	20	2+12	c, e, a	Ram, 2003;
C-518	India	null	20	2+12	c, e, a	Cornish, 2005;
C-591	India	1	13+16	5+10	a, f, d	Tahir et al, 1995;
C-6-a	Portugal	2*	7+8	2+12	b, b, a	Igrejas at al, 1999
C-75-5	Iran	null	7+9	2+12	c, c, a	Bahraei et al, 2004;
C-91181	Paraguay	2*	13+16	5+10	b, f, d	Vozquez et al, 2003
C-93087	Paraguay	1/2*	7+9	5+10	a/b, c, d	Vozquez et al, 2003
C-93472	Paraguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
CA 8686	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
CA 9532	China	null	7+9	2+12	c, c, a	Liu et al, 2005;

CA 9550	China	2 [*]	7+8	2+12	b, b, a	Liu et al, 2005;
CA 9553	China	2 [*]	7+9	2+12	b, c, a	Liu et al, 2005;
CA 9632	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
CA 9641	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
CA 9648	China	2 [*]	7+8	2+12	b, b, a	Liu et al, 2005;
CA 9719	China	2 [*]	7+8	2+12	b, b, a	Liu et al, 2005;
CA 9722	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
CA8686	China	null	7+9	2+12	c, c, a	He et al, 2005;
CA9532	China	null/1	7+9	2+12	c/a, c, a	Liu et al 2008
CA9550	China	2 [*]	7+8	2+12	b, b, a	Liu et al 2008
CA9553	China	2 [*]	7+9	2+12	b, c, a	Liu et al 2008
CA9632	China	null/1	7+9	2+12	c/a, c, a	Liu et al 2008
CA9641	China	null	7+8	2+12	c, b, a	Liu et al 2008

CA9641	China	null/1	7+8a*	2+12	c/a, b*, a	Liu et al 2008
CA9648	China	2 ⁺	7+8	2+12	b, b, a	Liu et al 2008
CA9719	China	2 ⁺	7+8	2+12	b, b, a	Liu et al 2008
CA9722	China	null/1	7+8	2+12	c/a, b, a	Liu et al 2008
Cacatu	Brazil	2*	13+16	2+12	b, f, a	Vozquez et al, 2003
Cache	U.S.A.	null	7+9	2+12	c, c, a	Graybosh, 1992;
Caddo	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Cadenza	U.K.	null	14+15	5+10	c, h, d	Kazman and Lein, 1996; Rabinovich et al, 2000b;
Cadet	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
Cadet	U.S.A.	2*	7+8	5+10	b, b, d	Anon, 1998;
Cadoux	Australia	2*	17+18	2+12	b, i, a	Anon, 1998;
Caesium-111	Russia	1/2*	7+8/7+9	2+12/5+10	a/b, b/c, a/d	Rabinovich et al, 2001;
Caete	Brazil	1	13+16	5+10	a, f, d	Vozquez et al, 2003

Caia	Portugal	1	6+8	5+10	a, d, d	Igrejas et al, 1999
Caina	Brazil	null	7*+8	5+10	c, u, d	Vozquez et al, 2003
Cajeme-f-71	Mexico	1	17+18	5+10	a, i, d	Anon, 1998; Lookhart et al, 1993;
CAL/NH/ /H567.71/3/SERI/4/CAL/NH/ /H567.71/5/2*KAUZ	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Caldwell	U.S.A.	1	7+8	5+10	a, b, d	Graybosh, 1992; Lookhart et al, 1993;
Calidad	Argentina	2*	7+8	5+10	b, b, d	Anon, 1998;
Calingiri	Australia	2*	13+16	2+12	b, f, a	Wrigley et al, 2005
Caliph	Australia	1	20	2+12	a, e, a	Cornish, 2005
Calovska	Czech Republic	1	7+9	2+12	a, c, a	Gregova et al, 1997;
Calvinor	U.S.A.	null	6+8(?)	-	c, d(?),	Branlard and Le Blank, 1985;
Camadi-abdu	Ethiopia	2*	7+8	-	b, b,	Vallega, 1988;
Camilla	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;
Camm	Australia	1	7+9	5+10	a, c, d	Wrigley et al, 2005

Campodoro	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Camp-remy	France	2*	7	3+12	b, a, b	Branlard and Le Blank, 1985; Branlard et al, 2003;
Camprimus	U.K.	null	6+8	4+12	c, d, c	Griffin et al, 2001;
Campus	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Canberra	Australia	1	20	2+12	a, e, a	Cornish, 2005
Candeal	Portugal	1	6+8	-	a, d,	Vallega and Mello-Sampayo 1987;
Candeal	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Candeal-alcala	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;
Candeal-de-alcaraz	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Candeal-de-grao-escuro	Portugal	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;
Candeal-de-minaya	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;
Candeal-de-salamanca	Spain	1	7+8	2+12	a, b, a	Ruiz et al, 2002;
Candeal-de-segovia	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;

Candeal-de-soria	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Candeal-de-vellisca	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Candeal-durumbuck	Argentina	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Candeal-mota-del-cuervo	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Candeal-nava-del-rey	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Candeal-puebla-almenara	Spain	2*	7+9	2+12	b, c, a	Ruiz et al, 2002;
Candeal-s.lorenzo-de-parrilla	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;
Candeal-sel-la-prevision	Argentina	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Cando	U.S.A.	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988; Lookhart et al, 1993; Branlard and Le Blank, 1985;
Candreita	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Canghe 030	China	null	20	5+10	c, e, d	Liu et al, 2005;
Canghe 030	China	null/1	20	5+10	c/a, e, d	Liu et al 2008
Canna	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;

Canoco	Portugal	2*	23+18	-	a, p,	Vallega and Mello-Sampayo 1987;
Canoco-de-grao-escuro	Portugal	1	VII.	-	a,x,	Vallega and Mello-Sampayo 1987; McIntosh et al, 1988; McIntosh et al, 1989;
Canthatch	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
Canthatch-k	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
Canuck	Canada	1/2*	7+9	5+10	a/b, c, d	Anon, 1998; Ng and Pogna, 1989;
Canus	Canada	2*	7+9	5+10	b, c, d	Anon, 1998; Rabinovich et al, 2000b;
Capdur	France	null	13+16	-	c, f,	Branlard and Le Blank, 1985;
Capeiti-8	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Capest	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Capitan	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Capitole	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003;
Capnord	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Capo	Austria	1	7+9	5+10	a, c, d	Kazman and Lein, 1996; Groger et al, 1997;

Cappelle-desprez	France	null	7	2+12	c, a, a	Kolster et al, 1993; Branlard and Le Blank, 1985; Anon, 1998; Rabinovich et al, 2000b; Bonjean, 2001
Caprimus	U.K.	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Caprock	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Graybosh, 1992;
CAR422/ANA//URES	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CAR853/COC//VEE/3	CIMMYT-16TH SAWSN	1	7+9/13+16	5+10	a, c/f, d	Payne and Pena, 2006;
CARA//TRAP#1/VEE#8	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Carasova	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Carat	France	null	6+8	5+10	c, d, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Cardon	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Cargidoc	France	null	7	2+12	c, a, a	Branlard et al, 2003;
Cargimarec	France	1	7	2+10	a, a, e	Branlard et al, 2003;
Cargo	France	2*	7+8	5+10	b, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Caribo	Germany	null	7	2+12	c, a, a	Kolster et al, 1993; Rogers et al, 1989;

Carim	Italy	null	7+9	2+12	c, c, a	Pogna et al, 1989;
Carimulti	Germany	null	7	2+12	c, a, a	Kolster et al, 1993; Rogers et al, 1989;
Carina	U.S.A.	null	7+8	2+12	c, b, a	Graybosh, 1992;
Cariplus	Germany	null	7	2+12	c, a, a	Rogers et al, 1989;
Carlo-gallini	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Carlos	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Carme	Italy	1	18*	5+10	a, ae, d	Pogna et al, 1989;
Carme-23	Italy	1	18*	5+10	a, ae, d	Pogna et al, 1989;
Carmen	Romania	2*	7+9	5+10	b, c, d	Brunori et al, 1989;
Carnamah	Australia	2*	7+9	2+12	b, c, a	Wrigley et al, 2005
Carolis	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Carolus	Germany	1	7	2+12	a, a, a	Kazman and Lein, 1996;
Carrizo-t-89	Mexico	1/2*	7+9/7+8	5+10/2+12	a/b, c/b, d/a	Rabinovich et al, 2000b;

Carstens-viii	Germany	null	7+8	2+12	c, b, a	Rogers et al, 1989;
Carthage	Tunesia	1	17+18	2+12	a, i, a	Cornish, 2005
Carthage-s	Tunesia	1	17+18	2+12	a, i, a	Cornish, 2005;
Casavant	Canada	1	7/v	2+12	a, a/v, a	Anon, 1998; Ng and Pogna, 1989;
Cascades	Australia	1	7+9	5+10/2+12	a, c, d/a	Cornish, 2005;
Cascalvo	Spain	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Cascon	Spain	null	7	2+12	c, a, a	Cornish, 2005;
Casoar	France	null	20	-	c, e,	Branlard and Le Blank, 1985;
Castan	France	null	7	5+10/4+12	c, a, d/c	Pogna et al, 1989; Branlard and Le Blank, 1985; Branlard et al, 2003;
Castello	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Castelporziano	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
CATBIRD	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CATBIRD	CIMMYT-7TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;

Catbird	Mexico	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Cato	Netherlands	null	7+9	5+10/2+12	c, c, d/a	Cerny, et al 1989;
Caton	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Caxton	U.K.	null	17+18	2+12	c, i, a	Kazman and Lein, 1996;
Caxudo	Portugal	2*	23+18	-	a, p,	Vallega and Mello-Sampayo 1987;
CAZO/KAUZ//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CBRD//THB/KEA	CIMMYT-15TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
CBRD/BAU	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CBRD/KAUZ	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Cd-87	Australia	2*	OE7+8*	2+12	b, al, a	Cornish, 2005
CDC Makwa (BW 606)	Canada	2*	7+9/17+18	5+10	b, c/i, d	Bushuk, 1997; Anon, 1998; Cornish, 2005
CDC Merlin (BW 636)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 1997; Anon, 1998;
CDC Teal (BW 616)	Canada	2*	7+8	5+10	b, b, d	Bushuk, 1997; Anon, 1998;

Cedar	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005
Celtic	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Celtic	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Centana	U.S.A.	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Centauro	Italy	1	7*+8	5+10	a, u, d	Pogna et al, 1989;
Centrifen	Chile	1/2*	17+18/20	2+12/5+10	a/b, i/e, a/d	Cornish, 2005;
Centura	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Centurk	U.S.A.	2*	7+8/7+9	2+12/5+10	b, b/c, a	Graybosh, 1992; Lookhart et al, 1993; Hyunand and Sik, 2001;
Centurk-78	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992; Lookhart et al, 1993;
Century	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
CEP 8012//ALD/MN72130	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Cep-24-industrial	Brazil	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Cep-27-missoes	Brazil	2*	7+8	5+10	b, b, d	Vozquez et al, 2003

Cerera	Croatia	1	7+9	5+10	a, c, d	Jost, 1996;
Ceres	Canada	2*	6+8	5+10	b, d, d	Bushuk, 2006;
Ceres	U.S.A.	2*	6+8	5+10	b, d, d	Anon, 1998;
Certege-1	Romania	null	7j	5+10	c, aj, d	Popa et al, 2004
Certege-4	Romania	1	7+9	5+10	a, c, d	Popa et al, 2004
Certeju-1	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Certo	Germany	null	6+8	2+12	c, d, a	Tohver et al, 2001, Tohner, 2007;
Cesium 94	Russia	null	7*+9	2+12	c, c, a	Morgounov et al 2008
Ceska-presivka	Czech Republic	2*	7+9	5+10	b, c, d	Gregova et al, 2004;
CETTIA	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CETTIA	CIMMYT-4TH HTWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Ceyhan-99	Turkey	1	13+16	5+10	a, f, d	Sanal et al, 2005
Chablis	U.K.	1	7+9	5+10	a, c, d	Kazman and Lein, 1996; Rabinovich et al, 2000b;

Chaika	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Chakinskaya-82	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Bespalov, 1994;
Chakwal-86	Pakistan	1	7+8	2+12	a, b, a	Tahir et al, 1995;
Chalk	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Challenge	U.K.	1	7+8	5+10	a, b, d	Cornish, 2005;
CHAM 6	CIMMYT-16TH SAWSN	2*	17+18/7+8	2+12	b, i/b, a	Payne and Pena, 2006;
Champion	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Champlain	U.S.A.	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985; Branlard et al, 2003; Anon, 1998;
Champtal	France	2*	7+8	5+10	b, b, d	Branlard et al, 2003;
Chamran	Iran	1	7	5+10	a, a, d	Bahraei et al, 2004;
Chancellor	U.S.A.	1	13+16	2+12	a, f, a	Graybosh, 1992;
Chandur	France	null	6+8(?)	-	c, d(?),	Branlard and Le Blank, 1985;
Chandur Biswa 7	India	2*	20	-	b, e, -	Oak et al, 2004;

Chandur Biswa 8	India	null	20	-	c, e, -	Oak et al, 2004;
Changdong-3	China	null	7+9	5+10/2+12	c, c, d	Wang et al, 1993;
Changfeng-1	China	null	7+8	2+12	c, b, a	He et al, 1992;
Changle-5	China	2*	7+8	2+12/4+12	b, b, a	Wang et al, 1993;
Chanute	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Chaqueno-Inta	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Chara	Australia	2*	OE7+8*	2+12	b, al, a	Wrigley et al, 2005
Charger	U.K.	null	17+18	2+12	c, i, a	Kazman and Lein, 1996;
Charivnitsa-odesskaya	Ukraine	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2001;
Charles-peguy	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985; Rabinovich et al, 2000b;
Charmany	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Chasico-Inta	Argentina	2*	7+8	5+10	b, b, d	Gianibelli et al, 2002;
Chd-246	Poland	null	7+9	2+12	c, c, a	Waga and Bietz, 1997;

Chd-329	Poland	null	7+9	2+12	c, c, a	Waga and Bietz, 1997;
Checco	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Chelyaba	Russia	1	6+8	2+12	a, d, a	Morgounov et al 2008
Chelyaba 2	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
CHEN/AEGILOPS SQUARROSA (TAUS)/ /BCN	CIMMYT-17TH ESWYT	2*	7+8	1.5+10	b, b, ah	Payne and Pena, 2006;
CHEN/AEGILOPS SQUARROSA (TAUS)/ /BCN	CIMMYT-29TH IBWSN	null	7+8	1.5+12	c, b, aj	Payne and Pena, 2006;
CHEN/AEGILOPS SQUARROSA (TAUS)/ /TURACO	CIMMYT-29TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Chenab	Iran	2*	b	2+12	b, b, a	Bahraei et al, 2004;
Chenab-70	Pakistan	1	7+8/17+18	5+10/2+12*	a, b/i, d/j	Tahir et al, 1995;
Chenab-79	Pakistan	1	17+18	5+10	a, i, d	Tahir et al, 1995;
Chengduguangtou	China	null	7+8/7+9	2+12/null	c, b/c, a/i	He et al, 1992; Xue-Yong et al, 2002
Chernomor	Ukraine	null	7+8	-	c, b,	Vallega, 1988;
Chernozemka-212	Russia	2*/1	7+9	5+10	b/a, c, d	Ya, 1997;

Chervona	Ukraine	2*/null	7+9	5+10	b/c, c, d	Rabinovich et al, 2001;
Chester	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
Cheyenne	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993; Anon, 1998; Rabinovich et al, 2000b;
Chianti	U.K.	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;
Chiarano	Italy	1	7	5+10	a, a, d	Pogna et al, 1989; Anon. 1993d;
CHIBIA	CIMMYT-17TH ESWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Chiddam-d-automne-a-epi-rouge	France	1	20	2+12	a, e, a	Gregova et al, 2004;
Chiefkan	U.S.A.	1	6+8/7+8/7+9	3+12	a, d/b/c, b	Graybosh, 1992;
Chieftain	U.K.	null	7+8	5+10	c, b, d	Cornish, 2005;
Chihokukomugi	Japan	null	20	2+12	c, e, a	Nakamura, 2000a;
Chikushikomugi	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
CHIL//2*MON/IMU	CIMMYT-29TH IBWSN	1/2*	17+18	2+12	a/b, i, a	Payne and Pena, 2006;
CHIL//ALD/PVN	CIMMYT-15TH SAWSN	null	17+18	5+10	c, i, d	Payne and Pena, 2006;

CHIL//ALD/PVN	CIMMYT-4TH SAWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
CHIL/BOMB	CIMMYT-14TH SAWSN	1	7+8	5+10	a, b, d	Payne and Pena, 2006;
CHIL/BUC	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CHIL/CHUM18	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
CHIL/CHUM18	CIMMYT-8TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
CHIL/FINK	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CHIL/IAN8	CIMMYT-8TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
CHIL/PGO	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
CHIL/PRL	CIMMYT-6TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CHIL/WUH3	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
CHIL/WUH3	CIMMYT-6TH SAWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
CHILERO	CIMMYT-8TH HRWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
China-2	China	null/1	20	5+10	c/a, e, d	Cornish, 2005;

Chinese-spring	China	null	7+8	2+12	c, b, a	McIntosh et al, 1990; Soltes-Rak, 1991; Lookhart et al, 1993; Anon, 1998; Das et al, 2001
Chinook	Canada	2*/1	7+9	5+10	2*/a, c, d	McIntosh et al, 1991; McIntosh et al, 1993; Ng and Pogna, 1989;
CHIRYA.3	CIMMYT-7TH HRWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Chisholm	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Chlumecka-12	Czech Republic	2*/null/1	7+9	5+10/2+12	b/c/a, c, d/a	Gregova et al, 2004;
Choisel	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
CHOIX M 95	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Choix-m-95	Mexico	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Chokwang	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Chopin	France	1	7+9	5+10	a, c, d	Branlard et al, 2003;
Chough	Australia	2*	7*+8	2+12	b, u, a	Wrigley et al, 2005
Chris	U.S.A.	2*	14+15/7+9	5+10	b, h/c, d	Anon, 1998; Rabinovich et al, 2000b;
Chuan 89-107	China	null	7+9	2+12	c, c, a	Liu et al, 2005;

Chuan 89-107	China	null/1	7+9	2+12	c/a, c, a	Liu et al 2008
Chuan 89-114	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Chuan 96003	China	null	7+9	3+12	c, c, b	Liu et al, 2005;
Chuan 96003	China	null/1	7+9	3+12	c/a, c, b	Liu et al 2008
Chuanmai 24	China	null	7*+8	5+10	c, u, d	He et al, 2005;
Chuanmai-13	China	1	7+8	2+12	a, b, a	Wang et al, 1993;
Chuanmai-18	China	null	7+9	5+10	c, c, d	He et al, 1992;
Chuanmai-22	China	1	7+9	5+10	a, c, d	He et al, 1992;
Chuanyu 12	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Chuanyu-12	China	1	7+8	5+10	a, b, d	Wei et al, 2000;
Chuanyu-85-85	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Chuanzhi-4331	China	1	7+9	5+10	a, c, d	He et al, 1992;
CHUM18//JUP/BJY	CIMMYT-4TH HRWYT	null	17+18	5+10	c, i, d	Payne and Pena, 2006;

CHUM18/SERI	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Ci-8635	Ethiopia	null	23+18	-	c, p,	Vallega, 1988;
CIANO T 79	CIMMYT-4TH HTWYT	2*/1	7+9/13+16	5+10	b, c/f, d	Payne and Pena, 2006;
Ciano-f-67	Mexico	2*/1	17+18	5+10	b/a, i, d	Gianibelli et al, 2002; Rabinovich et al, 2001;
Ciano-t-79	Mexico	2*	7+9	2+12	b, c, a	Rabinovich et al, 2000b;
Cibalka	Yugoslavia	null	7+9	2+12	c, c, a	Vapa, 1989;
Cico-inia	Chile	2*	17+18	2+12	b, i, a	
Ciguena-s	Mexico	2*	7+8/17+18	5+10	b, b/i, d	Cornish, 2005;
Cimarron	U.S.A.	2*	7+9	3+12	b, c, b	Graybosh, 1992;
Cique	Turkey	2*	7+9	2+12	b, c, a	Cornish, 2005;
CIRCUS	CIMMYT-4TH HTWYT	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Cisco	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
Citadel	Netherlands	null	6+8	2+12	c, d, a	Kolster et al, 1993; Groger et al, 1997;

Cl-2	Australia	2*/null	7+8	2+12	b/c, b, a	Cornish, 2005;
Cl-3	Australia	null	7+8	5+10	c, b, d	Cornish, 2005;
Clairdoc	France	null	20	-	c, e,	Branlard and Le Blank, 1985;
Clan	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Clara	Italy	1	7+9/7	5+12	a, c/a, h	Pogna et al, 1989;
Clara(1)	Italy	1	7+9	5+12	a, c, h	Pogna et al, 1989
Clara(2)	Italy	1	7	5+12	a, a, h	Pogna et al, 1989
Clarion	U.K.	null	17+18	2+12	c, i, a	Cornish, 2005;
Clark	U.S.A.	1	17+18	2+12	a, i, a	Anon, 1998;
Clarkan	U.S.A.	1	6+8/7+9	5+10	a, d/c, d	Graybosh, 1992;
Claudia	Italy	1	7+9	2+12	a, c, a	Pogna et al, 1989;
Claudius	Austria	1	7+8	2+12	a, b, a	Kazman and Lein, 1996; Groger et al, 1997;
Claymore	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005

CLC89/RABE	CIMMYT-31ST IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Clearfield-janz	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
Clearfield-stiletto	Australia	1	7+9	5+10	a, c, d	Wrigley et al, 2005
Cledor	France	null	7+9	5+10	c, c, d	Branlard and Le Blank, 1985;
Clement	Netherlands	null	6+8	2+12	c, d, a	Kolster et al, 1993; Pogna et al, 1989; Branlard and Le Blank, 1985; Branlard et al, 2003;
Club	Germany	1	7	5+10	a, a, d	Kazman and Lein, 1996;
CMH74A.754/PELOTA	CIMMYT-16TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
CMH77.308/WEAVER	CIMMYT-30TH IBWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
CMH79A.210/CMH79.215/ /CMH77.308/3/STAR/4/STAR	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
CMH79A.307/BOW/ /CMH79.959/2*CNO79	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)	CIMMYT-15TH SAWSN	null/2*	7+8	2.2+12	c/b, b, f	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)	CIMMYT-15TH SAWSN	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)	CIMMYT-15TH SAWSN	null	7+8	2+12	c, b, a	Payne and Pena, 2006;

CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)	CIMMYT-6TH SAWYT	2*	7+8	2.2+12	b, b, f	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)	CIMMYT-6TH SAWYT	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)/4/OCI	CIMMYT-29TH IBWSN	null	7+8	2.1+10	c, b, n	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)/4/OCI	CIMMYT-29TH IBWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI_2/3/AEGILOPS SQUARROSA (TAUS)/4/WEAVER	CIMMYT-29TH IBWSN	null	7+8	1.5+12	c, b, aj	Payne and Pena, 2006;
CNDO/R143/ /ENTE/MEXI75/3/AE.SQ/4/2*OCI	CIMMYT-29TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
CNDO/R143//ENTE/M	CIMMYT-16TH SAWSN	2*	7+8	2.2+12	b, b, f	Payne and Pena, 2006;
CNDO/R143//ENTE/M	CIMMYT-16TH SAWSN	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
CNDO/R143//ENTE/MEXI_2/3/AEGILOPS	§ CIMMYT-29TH IBWSN	null	7+8	2.1+10	c, b, n	Payne and Pena, 2006;
CNO67/SN64/ /CNO67//INIA66/3/PVN/4/CNR/5/YR	CIMMYT-17TH ESWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
CNO79/PRL//PFAU/VEE#5	CIMMYT-31ST IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Coastal	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Cocagna	Italy	null	6+8	2+12	c, d, a	Pogna et al, 1989;

Cocagne	France	null	6+8/7	2+12	c, d/a, a	Branlard and Le Blank, 1985; Payne et al, 1988
Cocamba	Australia	2*	7+8/7*+8	2+12	b, b/u, a	Anon, 1993c; Lawrence, 1986
Cochico-Inta	Argentina	2*	6+8	2+12	b, d, a	Gianibelli et al, 2002;
Cocoraque-f-75	Mexico	1	13+16/7+8	5+10	a, f/b, d	Rabinovich et al, 2000b;
Cocorit-c-71	Mexico	null	6+8/7+8/7+9	-	c, d/b/c,	Vallega, 1988; Anon, 1989; Branlard and Le Blank, 1985;
Coda	U.S.A.	null	6	2+12	c, an, a	Anon, 1996b;
Cody	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Coker-47-27	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Coker-57-16	U.S.A.	2*	6+8	5+10	b, d, d	Graybosh, 1992;
Coker-61-19	U.S.A.	1	-	2+12	a, , a	Graybosh, 1992;
Coker-68-15	U.S.A.	2*	6+8/7+9	2+10'	b, d/c, u	Lookhart et al, 1993; Graybosh, 1992;
Coker-68-19	U.S.A.	null	7+8	2+12	c, b, a	Graybosh, 1992;
Coker-747	U.S.A.	2*	6+8	2+10'	b, d, u	Lookhart et al, 1993;

Coker-762	U.S.A.	2*	7+9/6+8	2+12	b, c/d, a	Lookhart et al, 1993;
Coker-797	U.S.A.	2*	6+8	2+10'	b, d, u	Lookhart et al, 1993;
Coker-916	U.S.A.	2*	7+8	5+10	b, b, d	Lookhart et al, 1993;
Cologna	Italy	null/1	713+16/720	2+12/2+12*	c/a, af/ae, a/j	Pogna et al, 1989; McIntosh et al, 1989; McIntosh et al, 1998;
Cologna-1	Italy	null	713+16	2+12	c, af, a	Pogna et al, 1989
Colosseo	Italy	null	14+15	null	c, h, i	Anon, 1998;
Colt	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Columbia	U.S.A.	2*	6+8	2+12	b, d, a	Graybosh, 1992;
Columbus	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Bushuk, 1997; Dubuc and Boudreau, 1992;
Comandante-baudi	Italy	null	7*+8/20	2+12	c, u/e, a	Pogna et al, 1989;
Comandante-baudi(1)	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989
Comandante-baudi(2)	Italy	null	20	2+12	c, e, a	Pogna et al, 1989
Combi	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;

Combine	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Comeback	Australia	1	7+9	5+10	a, c, d	Cornish, 2005
Comet	Australia	2*	7+8/17+18	2+12	b, b/i, a	Cornish, 2005;
Commando	New Zealand	null	7+9	5+10	c, c, d	Griffin et al, 2001;
Compactoide-5	Chile	1	20/7	5+10/2+12	a, a/e, d/a	Rayfuse and Jones, 1993; Groger et al, 1997
Compass	Austria	null	7+9	2+12/5+10	c, c, a/d	Groger et al, 1997; Groger et al, 1997
Complet	Germany	1	6+8/7+9	5+10	a, d/c, d	Groger et al, 1997; Groger et al, 1997
Compton	U.S.A.	1	7+8	5+10	a, b, d	Graybosh, 1992;
Comtal	France	1	7+8	2+12	a, b, a	Branlard and Le Blank, 1985;
Cona	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Concho	U.S.A.	2*	7+9	2+12/3+12	b, c, a/b	Graybosh, 1992; Lookhart et al, 1993;
Concorde	Canada	2*	7+8	2+12	b, b, a	Bushuk, 2006;
Concorde	France	2*	7+8	2+12	b, b, a	Ng and Pogna, 1989; Anon, 1998;

Concordia	Italy	1	7+8	2+12/2+12*	a, b, a/j	Pogna et al, 1989;
Concordia(1)	Italy	1	7+8	2+12	a, b, a	Pogna et al, 1989
Concordia(2)	Italy	1	7+8	2+12*	a, b, j	Pogna et al, 1989
Condor	Australia	null/2*	7+8	2+12	c/b, b, a	Cornish, 2005; Anon, 1993c;
Condor-a	Australia	2*/null	7+8	2+12	b/c, b, a	Lawrence, 1986
Condor-b	Australia	null	7+8	2+12	c, b, a	Lawrence, 1986
Condor-p-44	Australia	1	17+18	2+12	a, i, a	Lawrence, 1986
Consort	U.K.	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Conte-marzotto	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Conte-morando	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Contra	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Groger et al, 1997;
Contur	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Conway (BW 569)	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Bushuk, 1997; Anon, 1998;

Cook	Australia	1	7+8/7*+8	2+12	a, b/u, a	Anon, 1998; Anon, 1993c;
COOK/VEE//DOVE/SE	CIMMYT-16TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
COOK/VEE//DOVE/SERI/3/GEN	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Cooperacion-bahia	Argentina	2*	7+8	5+10	b, b, d	Gianibelli et al, 2002;
Cooperacion-cabildo	Argentina	2*	7*+9/7+9	5+10	b, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Cooperacion-calquin	Argentina	2*	7*+9/7+9	5+10	b, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Cooperacion-liquen	Argentina	2*	7*+9/7+9	5+10	b, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Cooperacion-maipun	Argentina	1	7+8	5+10	a, b, d	Gianibelli et al, 2002;
Cooperacion-millan	Uruguay	1	7*+9/7+9	5+10	a, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Cooperacion-nanihue	Argentina	2*	7*+9/7+9	5+10	b, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Copain	France	1	7-Jun	2+12	a, a/an, a	Branlard and Le Blank, 1985; Branlard et al, 2003; Branlard, 2003
Coppei	U.S.A.	null	20	2+12	c, e, a	Rayfuse and Jones, 1993;
Corado	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;

Corado	Portugal	m/n	6+8	-	m/n, d,	McIntosh et al, 1991; McIntosh et al, 1993; Vallega and Mello-Samayo, 1987;
Cordial	France	1	7	2+11	a, a, q	Branlard and Le Blank, 1985;
Cordillera-3	Paraguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Corella	Australia	2*	7+8	5+10/2+12	b, b, d/a	Anon, 1993c; Wrigley et al, 2005
Corin	U.K.	null	6+8	3+12	c, d, b	Branlard and Le Blank, 1985; Branlard et al, 2003;
Corinthian	Austria	null	6+8	3+12	c, d, b	Cornish, 2005;
Coronado	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Coronation	Canada	1	7+9	5+10	a, c, d	Anon, 1998;
Corot	France	null	7	2+12	c, a, a	Branlard et al, 2003;
Corrigin	Australia	2*	7+8	2+12/5+10	b, b, a/d	Anon, 1993c; Wrigley et al, 2005
Cortex	Spain	2*	13+16	5+10	b, f, d	Igrejas at al, 1999
CORYDON	CIMMYT-4TH HRWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
CORYDON	CIMMYT-7TH HRWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;

Cosagne	Spain	null	7	2+12	c, a, a	Cornish, 2005;
Cosmos	France	null	6+8	4+12	c, d, c	Branlard et al, 2003;
Cossack	U.S.A.	1	7+9	5+10	a, c, d	Shan et al, 2007;
Costante	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Costantino	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Coteau	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993; Anon, 1998; Rabinovich et al, 2000b;
Cougar	U.S.A.	1	7+9	5+10	a, c, d	Shan et al, 2007;
Coulter	Canada	null	6+8	-	c, d,	Liu and Rathjen, 1994; Ng and Pogna, 1989; Vallega, 1988;
Courtot	France	2*	7+8	2+12	b, b, a	Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003;
Coyan-inia	Chile	2*	17+18	5+10	b, i, d	Vozquez et al, 2003
CPAC-8909	Brazil	1	7	5+10	a, a, d	Schuster et al, 1997
CPAC-89128	Brazil	null	13+16	2+12	c, f, a	Schuster et al, 1997
CPAC-89137	Brazil	1	7	2+12	a, a, a	Schuster et al, 1997

CPAC-89194	Brazil	null	7+9	2+12	c, c, a	Schuster et al, 1997
CPAC-89223	Brazil	1	7+8	5+10	a, b, d	Schuster et al, 1997
CPAC-8932	Brazil	null	7+9	2+12	c, c, a	Schuster et al, 1997
CPAC-8947	Brazil	null	7+8	2+12	c, b, a	Schuster et al, 1997
CPAN 3004	CIMMYT-17TH ESWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
CPAN1676	India	1	17+18	5+10	a, i, d	Ram, 2003;
CPAN1796	India	1	17+18	2+12	a, i, a	Ram, 2003;
CPAN1922	India	1	7+9	2+12	a, d, a	Ram, 2003;
CPAN3004	India	1	7+9	5+10	a, d, d	Ram, 2003;
Cranbrook	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Crandbrook	Australia	2*	17+18	5+10	b, i, d	Wrigley et al, 2005
CRDN/ /PELOTAS-ARTHUR*2/H567.71	CIMMYT-7TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
CRDN/ /PELOTAS-ARTHUR*2/H567.71/3/OPATA	CIMMYT-14TH SAWSN	2*	13+16/7+9	2+12	b, f/c, a	Payne and Pena, 2006;

CRDN/ /PELOTAS- ARTHUR*2/H567.71/3/TRAP#1/VEE#8	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Creneau	France	1	7+8	2+12	a, b, a	Branlard et al, 2003;
Creso	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987; Piergiovanni and Blanco, 1999; Turchetta et al, 1995;
Crespo-63	Colombia	2*	7+9	5+10	b, c, d	Cornish, 2005;
Crest	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Crew	U.S.A.	null/2*	6/7+8/7+9	2+12	c/b, an/b/c, a	Rayfuse and Jones, 1993; Rayfuse and Jones, 1993
Crim	U.S.A.	null	7+8	5+10	c, b, d	Cornish, 2005;
Crimson	U.S.A.	2*	7+9	2+12	b, c, a	Shan et al, 2007;
CROC_1/AE.SQUARRO	CIMMYT-16TH SAWSN	null	7+8	2.1+10	c, b, n	Payne and Pena, 2006;
CROC_1/AE.SQUARRO	CIMMYT-16TH SAWSN	1	7+8	2.1+10	a, b, n	Payne and Pena, 2006;
CROC_1/AE.SQUARRO	CIMMYT-16TH SAWSN	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
CROC_1/AE.SQUARRO	CIMMYT-16TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
CROC_1/AE.SQUARRO	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

CROC_1/AE.SQUARROSA (205)/ /BORL95	CIMMYT-6TH SAWYT	1	7+8	2.1+10	a, b, n	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (205)/ /KAUZ	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (205)/ /KAUZ	CIMMYT-29TH IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (205)/ /KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (205)/ /KAUZ	CIMMYT-29TH IBWSN	null	7+8	5+10	c, b, d	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (205)/ /KAUZ	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (224)/ /2*OPATA	CIMMYT-31ST IBWSN	null	13+16	2+12	c, f, a	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (224)/ /2*OPATA	CIMMYT-31ST IBWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
CROC_1/AE.SQUARROSA (224)/ /OPATA	CIMMYT-14TH SAWSN	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
Crockett	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Crosby	U.S.A.	null	6+8	-	c, d,	Lookhart et al, 1993;
Cross-7	New Zealand	d	6+8	2+12	d, d, a	Griffin, 1994;
Cross-7-61	New Zealand	d	6+8	2+12	d, d, a	Griffin, 1994; Griffin et al, 2001;

Crossbow	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Cruz-alta-Inta	Argentina	2*/1	7*+8	5+10/2+12	b/a, u, d/a	Gianibelli et al, 2002; Dubcovsky et al, 2004
Crvena-zvezda	Yugoslavia	null	6+8	2+12	c, d, a	Vapa, 1989;
CS/TH.SC//3*PVN/3/MIRLO/BUC	CIMMYT-29TH IBWSN	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
CS/TH.SC//3*PVN/3/MIRLO/BUC	CIMMYT-29TH IBWSN	2*	7+9	5+10/2+12	b, c, d/a	Payne and Pena, 2006;
Ct-615	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
Cuanyu 12	China	null/1	7+8	5+10	c/a, b, d	Liu et al 2008
Cuara	Brazil	1/2*	7+9	5+10/2+12	a/b, c, d/a	Zuniga et al, 2004
Cucurpe-86	Mexico	null	13+16	2+12	c, f, a	Rabinovich et al, 2000b;
CULIACAN T 89	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Culver	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Cumhuriyet	Turkey	2*	17+18	5+10	b, i, d	Anon, 1998;
Cumhuriyet-75	Turkey	2*	17+18	5+10	b, i, d	Sanal et al, 2005

CUMPAS//DOVE/BUC	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CUMPAS//DOVE/BUC	CIMMYT-6TH SAWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
CUMPAS//JUP/BJY	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
CUMPAS/OCI	CIMMYT-29TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Cunderdin	Australia	2*	17+18	2+12	b, i, a	Rabinovich et al, 2001;
Cunningham	Australia	1	7+8	2+12/5+10	a, b, a/d	Anon, 1993c; Anon, 1998; Wrigley et al, 2005
CUPE//TJB368.251/BUC	CIMMYT-29TH IBWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
CUPE//TJB368.251/BUC	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
CUPE//TJB368.251/BUC	CIMMYT-30TH IBWSN	2*	13+16/17+18	5+10	b, f/i, d	Payne and Pena, 2006;
Currawa	Australia	1	14+15/20	2+12	a, h/e, a	Cornish, 2005;
Currawong	Australia	1	7+9	2+12	a, c, a	Cornish, 2005
Currell	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Curry	Sweden	2*	14+15	2+12	b, h, a	Johansson et al, 1993;

Curzio	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Custer	U.S.A.	null	7+9	5+10	c, c, d	Shan et al, 2007;
Cutler	Canada	1	7+8	2+12/5+10	a, b, a/d	Anon, 1998; Cornish, 2005
Cutless	U.S.A.	2*	7+8	5+10	b, b, d	Anon, 1998;
Cutter	U.S.A.	1	17+18	5+10	a, i, d	Shan et al, 2007;
Cypress	Canada	1	7+9	5+10	a, c, d	Anon, 1998; Lukow et al, 1989
Cyrano	France	1	7+8	5+10	a, b, d	Kolster et al, 1993; Anon, 1998;
D-10-2	China	null	7+9	2+12	c, c, a	He et al, 1992;
D6301/HEINE VII/ /ERA/3/BUC/4/LIRA/5/SPB	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
D-6647	U.S.A.	null	6+8	null	c, d, i	Anon, 1998;
Dabat-119	Ethiopia	2*	7+8	-	b, b,	Anon, 1989; Vallega, 1988;
Dabat-124	Ethiopia	2*	7+8	-	b, b,	Anon, 1989; Vallega, 1988;
Dacke	Sweden	2*	14+15	2+12	b, h, a	Johansson et al, 1993;

Dag-1	China	null	20	2+12	c, e, a	He et al, 1992;
Dag-2	China	null	20	2+12	c, e, a	He et al, 1992;
Dagankent-1	Turkey	2*	17+18	5+10	b, i, d	Sanal et al, 2005
Dagdas-94	Turkey	2*	6+8	2+12	b, d, a	Sanal et al, 2005
Dagger	Australia	1	7+9	5+10	a, c, d	Cornish, 2005; Anon, 1993c;
Dakar-52	Dakar-52	2**	7+15	-	o, z,	Anon, 1989; Vallega, 1988;
Dakha	Russia	null	7+9	5+10	c, c, d	Ya, 1997;
Dakovcanka	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989;
Dalchue-inia	Chile	null	-	-	, ,d	Zuniga et al, 2004
Dalnevostochnaya	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Damiano	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Damiano-cremona	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Damier	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;

Dan	Australia	1	20/7+9	2+12	a, e/c, a	Cornish, 2005
Danby	U.S.A.	1/2*	7+9	5+10	a/b, c, d	Shan et al, 2007;
Danchikomugi	Japan	2*	7+8	2+12/2.2+12	b, b, a/f	Anon, 1998; Nakamura, 2000a;
Dandy	Canada	1	7*+9	5+10	a, c, d	Morgounov et al 2008
Danne	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Graybosh, 1992;
Danubia	Slovak Republic	1	7+9/7+8	5+10	a, c/b, d	Gregova et al, 1997; Sasek et al, 1997;
Daphne-90-4	U.K.	null	17+18	2+12	c, i, a	Cornish, 2005;
Darabea	Romania	null	7+8	5+10	c, b, d	Popa et al, 2004
Dardo	Italy	2*	7+9	4+12	b, c, c	Pogna et al, 1989;
Daritsa	Russia	1/2*	7+9	2+12/5+10	a/b, c, a/d	Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2000a;
Darius	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Darkan	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005;
Dartagnan	France	null	7	5+10	c, a, d	Cornish, 2005

Darter	Australia	2*	17+18	2+12	b, i, a	Anon, 1998;
Darunok	Ukraine	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2001;
Dasarkhed -1	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Dasarkhed -2	India	2*	20	-	b, e, -	Oak et al, 2004;
Datala 5	India	null	20	-	c, e, -	Oak et al, 2004;
Datala 6	India	2*	20	-	b, e, -	Oak et al, 2004;
Datatine	Australia	2*	7+8	2+12	b, b, a	Wrigley et al, 2005
Daunia	Italy	null	20	null	c, e, i	Anon, 1998;
David	Australia	null	18*	-	,ae,	McIntosh et al, 1991; McIntosh et al, 1989;
David	Austria	null	7+9	5+10	c, c, d	Groger et al, 1997;
David	Italy	p/1/null	18*	2+12	p/a/c, ae, a	Pogna et al, 1989;
David(1)	Italy	p	18*	2+12	p, ae, a	Pogna et al, 1989
David(2)	Italy	1	18*	2+12	a, ae, a	Pogna et al, 1989

David(3)	Italy	null	18*	2+12	c, ae, a	Pogna et al, 1989
David-1	Italy	p	-	-	-	McIntosh et al, 1991; McIntosh et al, 1993;
Davidoc	France	1	7+8	2+12	a, b, a	Branlard et al, 2003; Pogna et al, 1989
Dawbul	Canada	null	6*+8*	-	, w,	McIntosh et al, 1991; McIntosh et al, 1989;
Daws	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993;
DD-108	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
DD-118	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
DD-7	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005;
DDK1001	India	null	7 + 8	-	c ,b, -	Oak et al, 2004;
DDK1009	India	1	7 + 8	-	a ,b, -	Oak et al, 2004;
Dean	U.K.	null	7+9	5+10	c, c, d	Cornish, 2005;
De-carolis	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Decius	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;

Declic	Australia	2*	7+8	2+12	b, b, a	Cornish, 2007;
Declic	France	2*	7+8	2+12	b, b, a	Cornish, 2005
Deda	Romania	2*	7+8	5+10	b, b, d	Popa et al, 2004
Deir-allah-2	Jordan	null	7+15	-	c, z,	Anon, 1989; Vallega, 1988;
Dekalb-chanar	Argentina	1/2*	7+8/7+9	5+10	a/b, b/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2003
Dekalb-char	Argentina	1	7*+8/7+8	5+10	a, u/b, d	Dubcovsky et al, 2004
Dekalb-lapacho	Argentina	1	OE7+8*/7*+8	5+10	a, al/u, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Dekalb-quebracho	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Dekalb-tala	Argentina	1	7*+9	5+10	a, v, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Dekan	Germany	2*/ null	6+8	5+10/2+12	b/c, d, d/a	Masauskiene et al, 2002;
Delfi	France	null	7+8	5+10	c, b, d	Branlard et al, 2003;
Delfino	Italy	null	7	5+10/4+12	c, a, d/c	Pogna et al, 1989; Pogna et al, 1989
Deliver	U.S.A.	1	7+8	5+10	a, b, d	Shan et al, 2007;

Delmar	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Delos	Germany	1	7+9	5+10	a, c, d	Groger et al, 1997; Rabinovich et al, 2000b;
Del-pais	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Delta	Poland	null	13+16	2+12	c, f, a	Rabinovich et al, 2000a
Delta	Russia	2*	20	5+10	b, e, d	Rabinovich et al, 2000a;
Delta-queen	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Demai 3	China	null/1	OE7+8	2+12	c/a, al, a	Liu et al 2008
Demai 4	China	null/1	7+8	5+10	c/a, b, d	Liu et al 2008
Demar-4	Italy	null	6+8	2+12	c, d, a	Pogna et al, 1989;
Demetra	Croatia	1	7+9	5+10	a, c, d	Jurkovic et al, 2000; Horvat et al, 2002;
Demetra	Russia	1	7+9	5+10	a, c, d	Jurkovic et al, 2000; Horvat et al, 2002;
Demir-2000	Turkey	2*	7+9	2+12	b, c, a	Sanal et al, 2005
Democrat	Italy	2*	7+9	2+12	b, c, a	Pogna et al, 1989; Branlard et al, 2003;

Dennis	Australia	1	7*+8	2+12	a, u, a	Cornish, 2005
Derdanka	Yugoslavia	1	20	5+10	a, e, d	Stoeva et al, 1997;
DESC.F7ME2EM.9 Y90-91	CIMMYT-7TH HRWSN	null	17+18	2+12	c, i, a	Payne and Pena, 2006;
DESCONOCIDO	CIMMYT-7TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Devon	U.S.A.	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
Devoy	New Zealand	null	6+8	2+12	c, d, a	Griffin et al, 2001;
Dez	Iran	2*	17+18	2+12	b, i, a	Bahraei et al, 2004;
Dezassete	Spain	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Dgm-16	China	1	6+8	2+12/5+10	a, d, a	Wang et al, 1993;
DHARWAR DRY	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
DHARWAR DRY	CIMMYT-4TH SAWYT	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
DHARWAR DRY	CIMMYT-6TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Diabolo	France	null	20	-	c, e,	Branlard and Le Blank, 1985;

Dialog	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Diam	France	null	6+8	3+12	c, d, b	Branlard and Le Blank, 1985; Branlard et al, 2003;
Diamante	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Diamante-Inta	Argentina	1	7+8	2+12	a, b, a	Gianibelli et al, 2002;
Diamondbird	Australia	1	17+18	5+10	a, i, d	Wrigley et al, 2005
Diana-3	Bulgaria	null/2*	6+8/17+18	5+10/2+12	c/b, d/i, d/a	Morgunov et al, 1990; Bespalov, 1994;
Dias	South Africa	1	13+16	2+12	a, f, a	Cornish, 2005;
Dias-2	Russia	2*	7+8	2+12	b, b, a	Morgunov et al, 1990; Bespalov, 1994;
Diaspro	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Diaz	Australia	null/1	7+8	2+12	c/a, b, a	Cornish, 2005;
Dika	Croatia	1	7+8/6+8	2+12/5+10	a, b/d, a/d	Vapa, 1989; Knezevic et al, 1993;
Dioni	Greece	1	14+15	3+12	a, h, b	Matsoukas and Morrison, 1991
Diosecka-1784	Slovak Republic	1	7+9	3+12	a, c, b	Gregova et al, 1997;

Diosecka-f-2	Slovak Republic	null/1	7+8/7+9	2+12/3+12/5+10	c/a, b/c, a/b/d	Gregova et al, 1997; Gregova et al, 2004;
Diosecka-nova-200	Slovak Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997;
Diplomat	Germany	1	7+9	5+10	a, c, d	Groger et al, 1997; Rogers et al, 1989;
Dippes-dickkopf-6-a	Germany	null	20/7+8	2+12	c, e/b, a	Gregova et al, 1999;
Dirk	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Dirkwin	U.S.A.	2*	6+8	2+12	b, d, a	Labuschagne and Deventer, 1995;
Disponent	Germany	1	6+8/7+9	5+10	a, d/c, d	Groger et al, 1997; Branlard and Le Blank, 1985; Rogers et al, 1989;
Divana	Croatia	2*/null	7+9	5+10	b/c, c, d	Jost, 1996; Horvat et al, 2002;
Divio	France	null	7	5+10	c, a, d	Branlard et al, 2003;
DL 802-3	CIMMYT-30TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
DL153-2	India	2*	17+18	5+10	b, i, d	Ram, 2003;
DL784-2	India	1	17+18	2+12	a, i, a	Ram, 2003;
DL788-2	India	1	17+18	2+12	a, i, a	Ram, 2003;

DL803-3	India	2*	7+9	2+12	b, d, a	Ram, 2003;
Dn-2236	Denmark	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993
Dn-2263	Denmark	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Dnepryanka	Ukraine	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2001;
Dobra	Croatia	null	20	5+10	c, e, d	Vapa, 1989;
Dobro-polje	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Dobrovicka-10	Czech Republic	null	20	2+12	c, e, a	Gregova et al, 2004;
Dobrynya	Russia	2*	7+9	2+12	b, c, a	Panin, 1999;
Dodoni	Greece	null	7+8	2+12	c, b, a	Matsoukas and Morrison, 1991
Dogu-88	Turkey	2*	7+9	5+10	b, c, d	Sanal et al, 2005
Dollarbird	Australia	1	17+18	5+10/2+12	a, i, d/a	Anon, 1993c; Wrigley et al, 2005
Dolomit	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Rogers et al, 1989;
Domino	New Zealand	1	6+8	5+10	a, d, d	Griffin, 1994; Griffin et al, 2001;

Dominus	Austria	2*	7	3+12	b, a, b	Groger et al, 1997;
Domo-inia	Chile	2*	7	5+10/2+12	b, a, d/a	Vozquez et al, 2003
Don-85	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Donau	France	null	7+8	5+10	c, b, d	Groger et al, 1997;
Donchanka-3	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Don-ernesto	Argentina	2*	7+9	5+10	b, c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Donetskaya-46	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Donetskaya-48	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Donetskaya-5	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
Dongfanghong-3	China	null	7+9/7+8	4+12	c, c/b, c	Wang et al, 1993; He et al, 1992; Khan et al, 1989
Dongfeng 1	China	null	7+9	2+12	c, c, a	He et al, 2005;
Dongfeng 611	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Dongfeng 9801	China	null	7+9	2+12	c, c, a	Liu et al, 2005;

Dongxie-1	China	2*	7+9	2+12	b, c, a	Wang et al, 1993;
Dongxie-2	China	2*	7+9	5+10/2+12	b, c, d	Wang et al, 1993;
Dongxie-3	China	null	7+9	5+10	c, c, d	He et al, 1992;
Donjon	Netherlands	2*	7+8	2+12	b, b, a	Kolster et al, 1993; Anon, 1998;
Donshchina	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Donskaya-bezostaya	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2000a;
Donskaya-intensivnaya	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990;
Donskaya-ostistaya	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Donskaya-poluintensivnaya	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990;
Donskaya-polukarlikovaya	Russia	1	7+8/7+9	5+10	a, b/c, d	Morgunov et al, 1990; Sobko and Sozinov, 1999; Ya, 1997; Rabinovich et al, 2000a;
Donskaya-yubileinaya	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Dorado	Italy	1	7*+8	5+10	a, u, d	Pogna et al, 1989;
Doublecrop	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992; Lookhart et al, 1993;

Dounau	Austria	null	7+9	5+10	c, c, d	Groger et al, 1997
Dove	U.K.	null	14+15	5+10	c, h, d	Cornish, 2005;
DOVE/BUC//ANGRA	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
DOVE/BUC//PVN/PAM	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
DOVE/BUC/3/PF70354/ALD/ /MES/4/AMSEL	CIMMYT-7TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Downy	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Dozent	Germany	null	7+8	2+12	c, b, a	Rogers et al, 1989;
Drabant	Sweden	2*	7+9	2+12/5+10	b, c, a/d	Tohver et al, 2001;
Drago	Italy	2*	-	-	b, ,	Turchetta et al, 1995;
Dragon	France	1	7+8	4+12	a, b, c	Branlard and Le Blank, 1985;
Dragon	Sweden	2*	7+9	2+12	b, c, a	Johansson et al, 1993;
Drake	U.K.	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Drava	Croatia	1	7	2+12	a, a, a	Vapa, 1989;

Dreadnought	New Zealand	1	6+8	2+12	a, d, a	Gregova et al, 2004;
Drina	Yugoslavia	1	7+8	2+12	a, b, a	Vapa, 1989; Borojevic, 1990; Vapa and Sanic, 1988;
Dritto	Italy	null	23+28	-	c, p,	Vallega and Waines, 1987; McIntosh et al, 1993;
Druzhina	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Drysdale	Australia	1	17+18	5+10	a, i, d	Wrigley et al, 2005
DT-369	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-471	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-474	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-618	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-630	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-631	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-639	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-642	Canada	null	6+8	null	c, d, i	Anon, 1998;

DT-662	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-665	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-666	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-672	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-674	Canada	null	6+8	null	c, d, i	Anon, 1998;
DT-675	Canada	null	6+8	null	c, d, i	Anon, 1998;
Du-3-mai-1	China	null	6+8	2+12	c, d, a	He et al, 1992;
Du-3-mai-2	China	null	6+8	2+12	c, d, a	He et al, 1992;
Du-3-mai-3	China	null	6+8	2+12	c, d, a	He et al, 1992;
Du-3-mai-4	China	null	6+8	2+12	c, d, a	He et al, 1992;
Dual	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Dubravka	Yugoslavia	null	6+8	5+10	c, d, d	Vapa and Sanic, 1988;
Ducat	France	1	7	5+10	a, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;

DUCULA	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Ducula	Mexico	2*	17+18	5+10	b, i, d	Rabinovich et al, 2000b;
DUCULA//HUI/TUB/3	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
DUCULA//HUI/TUB/3/CAZO	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
DUCULA//VEE/MYNA	CIMMYT-6TH SAWYT	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
DUCULA/CHAGUAL//CAZO	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
DUCULA/KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Duffy	U.S.A.	1	20	2+12	a, e, a	Anon, 1998;
Duga	Yugoslavia	1	7+9	5+10	a, c, d	Vapa, 1989; Dencic and Borojevich, 2001;
Dugoklasa	Yugoslavia	null	7+8/7+9	2+12/5+10	c, b/c, a/d	Soltes-Rak, 1991; Vapa and Sanic, 1988;
Duillio	Italy	null	7+8	null	c, b, i	Anon, 1998;
Dukat	Croatia	null	7+9	2+12	c, c, a	Vapa, 1989;
Duke	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;

DULUS	CIMMYT-8TH HRWSN	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
Dumas	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Dunav	Yugoslavia	null	21/7/7+9/6+8	5+10	c, j/a/c/d, d	Vapa, 1989; Vapa and Sanic, 1988; McIntosh et al, 1990; McIntosh et al, 1989; Borojevic, 1990; McIntosh et al, 1991
Dundas	Canada	1	f/7+9	5+10	a, f/c, d	Ng and Pogna, 1989; Anon, 1998;
Dundee	Australia	1	7+9/17+18	5+10/2+12	a, c/i, d/a	Cornish, 2005;
Duraking	Canada	null	6+8	null	c, d, i	Anon, 1998;
Dural	Australia	null	20	-	c, e,	Anon, 1989; Vallega, 1988; Branlard and Le Blank, 1985;
Duramba	Australia	null	13+16	-	c, f,	Turchetta et al, 1995;
Duramba-a	Australia	2*	13+16	-	b, f,	Anon, 1989; Vallega, 1988; Liu and Rathjen, 1994;
Duramba-b	Australia	null	13+16	-	c, f,	Anon, 1989; Vallega, 1988;
Durango	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Durati	Australia	null	13+16	-	c, f,	Cornish, 2005;
Durazio-molar	Portugal	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;

Durazio-molar-glabro	Portugal	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;
Durazio-rijo	Portugal	null	14+15	-	c, h,	Vallega and Mello-Sampayo 1987;
Durazio-rijo-glabro	Portugal	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;
Durex	U.S.A.	null	6+8	null	c, d, i	Anon, 1998;
Durin	U.K.	null	6+8/7+8	2+12	c, d/b, a	Kolster et al, 1993; Anon, 1998;
Durox	U.S.A.	null	20	-	c, e,	Branlard and Le Blank, 1985;
Durtal	France	2*	13+16?	-	b, f?,	Branlard and Le Blank, 1985;
Dusi-3	Italy	null	7*+8/7	2+12	c, u/a, a	Pogna et al, 1989;
Du-toit	Australia	1	20/7+8	2+12	a, e/b, a	Cornish, 2005
DVERD_2/AE.SQUARROSA (214)/ /2*BCN	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
DVERD_2/AE.SQUARROSA (214)/ /2*SKAUZ	CIMMYT-31ST IBWSN	null	7+9	1.5+10	c, c, 1.d	Payne and Pena, 2006;
DVERD_2/AE.SQUARROSA (214)/ /2*SKAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
DWR137	India	null	13+16	2+12	c, f, a	Ram, 2003;

DWR16	India	2*	7+8	2+12	b, b, a	Ram, 2003;
DWR162	India	2*	7+8	2+12	b, b, a	Ram, 2003;
DWR-185	India	null	7 + 8	-	c, b, -	Oak et al, 2004;
DWR39	India	2*	7+8	2+12	b, b, a	Ram, 2003;
Dynamo	U.K.	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Dzerdanka	Croatia	1	20	5+10	a, e, d	Vapa, 1989;
Dzhalvar	Armenia	2*	7+9	5+10	b, c, d	Urazaliev,2003;
E 66378	China	1	14+15	2+12	a, h, a	Liu et al, 2005;
E 81027	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
E 86642	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
E 91727	China	1	14+15	2+12	a, h, a	Liu et al, 2005;
E-91075	Paraguay	1/2*	7+9	5+10	a/b, c, d	Vozquez et al, 2003
E-91079	Paraguay	1/2*	7+9	2+12	a/b, c, a	Vozquez et al, 2003

E-91081	Paraguay	1	7+9	5+10	a, c, d	Vozquez et al, 2003
E-92225	Paraguay	1/2*	7+9	5+10	a/b, c, d	Vozquez et al, 2003
E-92227	Paraguay	1	7+9	5+10	a, c, d	Vozquez et al, 2003
E-94085	Paraguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
E-96052	Paraguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Eagle	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Eagle	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993;
Early-baart	Australia	1	20	2+12	a, e, a	Cornish, 2005
Early-blackhull	U.S.A.	1/2*	7+8/7+9	2+12	a/b, b/c, a	Graybosh, 1992;
Early-picmium	China	null	7+8/7+9	5+10	c, b/c, d	Xue-Yong et al, 2002
Early-red-fife	Canada	null	7+9	2+12	c, c, a	Anon, 1998;
Early-Triumph	Canada	1	7+9	5+10	a, c, d	Anon, 1998;
Early-triumph	U.S.A.	1	7+9	5+10	a, c, d	Lukow et al, 1989

Ebi	U.K.	null	7+8	5+10	c, b, d	Kazman and Lein, 1996; Sasek et al, 1997;
Ebisukomugi	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
Ech-1096	U.K.	2*	7+9	2+12	b, c, a	Rayfuse and Jones, 1993;
Echo	Netherlands	1	7+9	5+10	a, c, d	Igrejas et al, 1999
Ecrin	France	null	17+18	2+12	c, i, a	Pogna et al, 1989; Branlard et al, 2003;
Eden	U.S.A.	null	17+18	5+10	c, i, d	Anon, 2006;
Edison	Austria	2*	7+9	5+10	b, c, d	Groger et al, 2005
Edita	Croatia	null	7+9	2+12	c, c, a	Jurkovic et al, 2000;
Edmore	U.S.A.	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Edwall	U.S.A.	null	7+9	2+12	c, c, a	Rabinovich et al, 2000b;
EEn 1	China	null	7+8	2+12	c, b, a	He et al, 2005;
EGA Blanco	Australia	2*	7+9	5+10	b, c, d	Wrigley et al, 2005
EGA Bonnie Rock	Australia	1	17+18	2+12	a, i, a	Wrigley et al, 2005

EGA Castle Rock	Australia	1	7*+8	5+10	a, u, d	Wrigley et al, 2005
EGA Eagle Rock	Australia	1	17+18	2+12	a, i, a	Wrigley et al, 2005
EGA Gregory	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
EGA Hume	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
EGA Jitarning	Australia	1/2*	17+18	2+12	a/b, i, a	Wrigley et al, 2005
EGA Wedgetail	Australia	1	17+18	5+10	a, i, d	Wrigley et al, 2005
EGA Wentworth	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
EGA Wylie	Australia	1	13+16	2+12	a, f, a	Wrigley et al, 2005
Egret	Australia	null	7+8	5+10	c, b, d	Anon, 1993c; Anon, 1998;
Eiffel	Netherlands	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Eika	Russia	null/2*	7+9	2+12/5+10	c/b, c, a/d	Ya, 1997; Rabinovich et al, 2000a;
Ekdania - 69	India	2*	20	-	b, e, -	Oak et al, 2004;
Ekho	Russia	2*	13+16	5+10	b, f, d	Rabinovich et al, 2000a;

Ekinchi	Azerbaijan	null	7+9	2+10	c, c, e	Urazaliev,2003;
Eksprompt	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
El-240	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005;
Elgin	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Elia	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989;
Eliodore	Italy	null	13+16	-	c, f,	Vallega and Waines, 1987; Vallega and Waines, 1987;
Elite	Australia	1	7+8	2+11	a, b, q	Branlard and Le Blank, 1985;
Elite-le-peuple	France	1	7+8	2+11	a, b, q	Branlard and Le Blank, 1985;
Elize	South Africa	1	13+16	5+10	a, f, d	Cornish, 2005;
Ellison	Australia	1	17+18	5+10	a, i, d	Wrigley et al, 2005
Elmar	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Elo	Finland	1	7+9	2+12	a, c, a	Cornish, 2005;
Eloi	France	null	6+8	5+10	c, d, d	Branlard and Le Blank, 1985;

Elrina	South Africa	1	7+8/17+18	5+10	a, b/i, d	Cornish, 2005;
Elysee	France	null	20	5+10	c, e, d	Branlard and Le Blank, 1985;
Emai 11	China	1	20	2+12	a, e, a	He et al, 2005;
Emai-9	China	null	7+8/7+9	2+12	c, b/c, a	Wang et al, 1993;
Emblem	Australia	1	20	5+10	a, e, d	Cornish, 2005;
Embrapa-16	Brazil	2*	7*+8	2+12	b, u, a	Vozquez et al, 2003
Embrapa-22	Brazil	1	7+8	5+10	a, b, d	Vozquez et al, 2003
Embrapa-27	Brazil	2*	7+9	2+12	b, c, a	Vozquez et al, 2003
Embrapa-40	Brazil	null	17+18	5+10	c, i, d	Anon, 1996a; Vozquez et al, 2003
Embrapa-42	Brazil	1	17+18	5+10	a, i, d	Vozquez et al, 2003
Embrapa-49	Brazil	2*	7+8/7*+8	5+10	b, b/u, d	Anon, 1997a; Vozquez et al, 2003
Emilio-morandi	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Emma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005

Emma-1	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-107-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-108-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-114-96	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005;
Emma-115-96	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005;
Emma-116-96	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005;
Emma-117-96	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005;
Emma-119-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-120-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-121-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-122-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-123-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-124-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;

Emma-126-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-132-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-135-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-146-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-147-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-150-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-151-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-155-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-157-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-158-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-16	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-160-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-164-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;

Emma-165-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-167-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-168-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-169-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-17	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-170-96	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-171-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-173-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-179-96	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-183-96	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-186-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-187-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-188-96	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;

Emma-19	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-20	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-200-96	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-202-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-204-96	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-206-96	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-208-96	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-22	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-28	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005;
Emma-29	Hungary	null	7+9	2+12	c, c, a	Bedo and Lang, 2005;
Emma-3	Hungary	null	7+9	2+12	c, c, a	Bedo and Lang, 2005;
Emma-30	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-31	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;

Emma-33	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005;
Emma-34	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-4	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-7	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emma-8	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005;
Emu-s	Mexico	2*	7+8/OE7+8*	2+12	b, b/al, a	Cornish, 2005;
Encore	U.K.	null	17+18	2+12	c, i, a	Kazman and Lein, 1996;
Encore	U.S.A.	null	17+18	2+12	c, i, a	Cornish, 2005;
Endeavour	New Zealand	2*	7+8	2+12	b, b, a	Griffin, 1994; Griffin et al, 2001;
Endurance	U.S.A.	2*	6*+8*	5+10	b, w, d	Shan et al, 2007;
Enesco	France	null	7+8	2+12/5+10	c, b, a/d	Chunin, 1991; Perenzin et al, 1997;
Engelina	Russia	1	7*+8	5+10	a, u, a	Morgounov et al 2008
Enhancer	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;

Enita	Russia	1	7+8	5+10	a, b, d	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;
Epiroux	France	null	7	2+12	c, a, a	Branlard et al, 2003;
Equinox	U.K.	null	6+8	3+12	c, d, b	Kazman and Lein, 1996;
Era	U.S.A.	1/2*	7+8/17+18/7	5+10	a/b, b/i/a, d	Lookhart et al, 1993; Rabinovich et al, 2000b; Anon, 1998;
Eradu	Australia	1	17+18	2+12	a, i, a	Cornish, 2005; Anon, 1993c;
Eretria	Greece	2*	20	-	b, e,	Anon, 1989; Vallega, 1988;
Eridano	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Erik	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Eritrospermum 59	Russia	1	7*+9	5+10	a, c, a	Morgounov et al 2008
Eritrospermum 78	Russia	1	7*+9	5+10	a, c, d	Morgounov et al 2008
Erla-kolben	Austria	1	7+9	5+10	a, c, d	Groger et al, 1997;
Ernest	U.S.A.	null	7+9	3+12	c, c, b	Liu et al 2008
Ershovskaya-10	Russia	1	7+9	5+10	a, c, d	Ya, 1997;

Ershovskaya-3	Russia	1	7+8	5+10	a, b, d	Morgunov et al, 1990;
Ershovskaya-32	Russia	2*	17+18	5+10	b, i, d	Morgunov et al, 1990;
Ertis-97	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Erwin	Austria	1	7	5+10	a, a, d	Groger et al, 1997; Rabinovich et al, 2000b;
Erythropermum-13	Kyrgyzstan	2*	7+9	2+10	b, c, e	Urazaliev,2003;
Erythropermum-14	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Erythropermum-21	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Erythropermum-23	Russia	2*	7+9	2+12/5+10	b, c, a/d	Morgunov et al, 1990;
Erythropermum-35	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Erythropermum-350	Kazakhstan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Erythropermum-5	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Erythropermum-59	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Erythropermum-760	Kyrgyzstan	2*	7+9	5+10	b, c, d	Urazaliev,2003;

Erythrospermum-786	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Erythrospermum-9945	Kyrgyzstan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Escuro	Spain	null/V	6+8	-	-IV, d,	Vallega and Mello-Sampayo 1987;
ESDA*2/WL6975	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
ESDA/4/BD120/3/GT	CIMMYT-16TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
ESDA/4/BD120/3/GTA/MXP/ /RUFF/FGO	CIMMYT-6TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
ESDA/LIRA	CIMMYT-7TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ESDA/SHWA//BCN	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ESDA/SHWA//BCN	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ESDA/VEE#10	CIMMYT-17TH ESWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ESDA/VEE#10	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ESDA/VEE#10	CIMMYT-29TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
ESDA/YR	CIMMYT-14TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;

Eshimashinriki	Japan	null	7*+8	2	c, u, k	Liu et al 2008
Espanhol	Portugal	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;
Espanhol-8914	Portugal	null	77+9	-	, ac,	McIntosh et al, 1989;
Essor	France	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985;
Estanzuela-calandria	Uruguay	null	17+18	5+10	c, i, d	Vozquez et al, 2003
Estanzuela-cardenal	Uruguay	1	7+9	5+10	a, c, d	Vozquez et al, 2003
Estanzuela-dorado	Uruguay	1	7*+8	5+10	a, u, d	Vozquez et al, 2003
Estanzuela-federal	Uruguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Estanzuela-halcon	Uruguay	1/2*	7*+8	5+10	a/b, u, d	Vozquez et al, 2003
Estanzuela-hornero	Uruguay	1	7+9	5+10	a, c, d	Vozquez et al, 2003
Estanzuela-pelon-90	Uruguay	1	13+16	5+10	a, f, d	Vozquez et al, 2003
Estanzuela-tarariras	Uruguay	2*	7*+8	5+10	b, u, d	Vozquez et al, 2003
Este	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;

Esterhazai-mindenes	Hungary	null/1	7+9/7+8	3+12/5+10	c/a, c/b, b/d	Gregova et al, 2004;
Estica	Netherlands	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Sasek et al, 1997; Branlard et al, 2003;
Est-mottin	Italy	1	6*+8*	2+12	a, w, a	Pogna et al, 1989;
Estrad	Sweden	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
Estrella-baer	Chile	null	7+8	2+12	c, b, a	Cornish, 2005;
Eta	Poland	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
Etoile-de-choisy	France	null	7+8	2+12	c, b, a	Graybosh, 1992; Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003;
Etruria	Italy	2*	7+9	2+12	b, c, a	Pogna et al, 1989;
Eufrates	Portugal	2*	7+8	5+10	b, b, d	Igrejas at al, 1999
Eunpamil	Korea	null	7+9	2.2+12	c, c, f	Hyun et al, 2001;
Eureka-tourneur	France	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Branlard et al, 2003;
Euris	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Eurofit	Austria	1	7+9/17+18	5+10	a, c/i, d	Groger et al, 2005

EVD2-1 1012/KAUZ	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Evropa	Yugoslavia	null	7+9	2+12	, c, a	Borojevic, 1990; Dencic and Borojevich, 2001;
Ex – 33	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
Ex – 7	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
Excalibur	Australia	1/2*	7+8/17+18/7*+8	2+12/5+10	a/b, b/i/u, a/d	Cornish, 1994; Anon, 1998; Wrigley et al, 2005
Exklusiv	Austria	2*	7+9	5+10	b, c, d	Kazman and Lein, 2005
Expedition	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Expert	Austria	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Exquisit	Austria	1	7+9	5+10	a, c, d	Groger et al, 1997;
Extra-legland	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Extra-squarehead	Sweden	null	6+8/20/7+8	2+12	c, d/e/b, a	Gregova et al, 2004;
Extrem	Austria	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Eylau	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;

Ezordal	Argentina	1	7+9	5+10	a, c, d	Vozquez et al, 2003
F-122	China	2*	13+16	5+10	b, f, d	Galova et al, 2001
F-49	Slovak Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997;
F6.74/BUN//SIS/3/LIRA	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
F6.74/BUN//SIS/3/LIRA	CIMMYT-8TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
F6.74/BUN//SIS/3/THB	CIMMYT-7TH HRWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
F6.74/BUN//SIS/3/THB	CIMMYT-7TH HRWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
F60314.76/MRL//CN	CIMMYT-16TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
F60314.76/MRL//CNO79	CIMMYT-4TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Fabiola	Italy	1	17+18	2+12	a, i, a	Pogna et al, 1989;
Faisalabad-83	Pakistan	1	7+9	2+12	a, c, a	Tahir et al, 1995;
Faisalabad-85	Pakistan	1	17+18	5+10	a, i, d	Tahir et al, 1995;
Faisca	Portugal	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;

Fakir	Germany	null	7+9	2+12/5+10	c, c, a/d	Cerny, et al 1989;
Fakta	Germany	null	7+9	-	, c,	Waga, 1992;
Faktor	Germany	null	7+9	-	, c,	Waga, 1992;
Falat	Iran	1	7+9	5+10	a, c, d	Bahraei et al, 2004;
Falco	Netherlands	null	6+8	2+12	c, d, a	Rayfuse and Jones, 1993;
Falcon	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Falcone	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989;
Faleria	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
FALKE	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Falke	Germany	1	6+8	2+12	a, d, a	Rogers et al, 1989;
FALKE*2/BISU	CIMMYT-6TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Falketto	Austria	null	6+8	2+12/4+12	c, d, a/c	Groger et al, 2005
Famulus	Austria	null	7+9	5+10	c, c, d	Groger et al, 1997;

Fan	Australia	1	20	5+10	a, e, d	Cornish, 2005
Fan-20	China	1	7+8	5+10	a, b, d	He et al, 1992;
Fan-6	China	null	17+18	5+9	c, i, g	Xue-Yong et al, 2002
Fan-6-s	China	null	20	2+12	c, e, a	He et al, 1992;
Fane	Australia	null	7+9	2+12	c, c, a	Cornish, 2005
Fanion	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985;
Fanshanmai	China	null	7*+8	2+12	c, u, a	He et al, 1992;
Fantaziya-odesskaya	Ukraine	1/2*	7+8	5+10	a/b, b, d	Ya, 1997; Sobko and Sozinov, 1999;
Fanzao-2	China	null	7+8	2+12	c, b, a	He et al, 1992;
Fanzao-5	China	1	7+8	4+12	a, b, c	He et al, 1992;
Fao-29.909	Cyprus	null	23+18	-	c, p,	Vallega, 1988; Anon, 1989;
Fao-29.912	Cyprus	null	23+18	-	c, p,	Vallega, 1988; Anon, 1989;
Fao-29.929	Cyprus	null	13+16	-	c, f,	Vallega, 1988; Anon, 1989;

Fao-29.934	Cyprus	null	23+18	-	c, p,	Vallega, 1988; Anon, 1989;
Farmer	Germany	1	7+9	5+10	a, c, d	Waga, 1992; Rogers et al, 1989;
Farnese	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Farneto	Italy	null	7+9	2+12	c, c, a	Pogna et al, 1989; Anon. 1993d;
Faro	U.S.A.	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
Farrum K-6413	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
FASAN	CIMMYT-4TH HTWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
FASAN/VEE#10	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
FASAN/YR//KAUZ	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Fa-thamanya	Jordan	null	X.	-	c, aa,	Anon, 1989; Vallega, 1988;
FATIMA-2	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
Faust	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Favor	Canada	1	7+9	2+12	a, c, a	Anon, 1998;

Favori	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Favorit	Austria	1	7+9	2+12/3+12	a, c, a/b	Bedo and Lang, 1997; Groger et al, 1997
Favorit	Germany	1	7+9	5+10	a, c, d	Groger et al, 1997;
FCT/3/GOV/AZ/ /MUS/4/DOVE/BUC	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
FCT/3/GOV/AZ//MUS	CIMMYT-16TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Fd-5	Hungary	null	7+8	5+10	c, b, d	Bedo and Lang, 2005
Febo	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Federation	Australia	1	20/7+9	5+10	a, e/c, d	Rabinovich et al, 2000b; Anon, 1998;
Federation	Canada	1	20	5+10	a, e, d	Bushuk, 2006;
Fedorovka	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Ya, 1997; Sobko and Sozinov, 1999;
Felice	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;
Felino	Italy	2*	7+9	2+12	b, c, a	Pogna et al, 1989;
Felix	Australia	1	20	2+12	a, e, a	Cornish, 2005

Fengchan-3	China	null	7+8	2+12/5+9	c, b, a/g	He et al, 1992; Khan et al, 1989
Fengkang-10	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
Fengkang-11	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
Fengkang-13	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
Fengkang-2	China	2*	7+9	2+12	b, c, a	Wang et al, 1993; He et al, 1992;
Fengkang-8	China	null	7+9	2+12	c, c, a	He et al, 1992;
Fengmai 24	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Fengmai 27	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Fengqiang-5	China	2*	7+9	5+10	b, c, d	He et al, 1992;
Fengyou 6	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Fengyou 7	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Fengyu-908	China	null	7+9	5+10	c, c, d	He et al, 1992;
Fengyuan-76017	China	2*	22	2+12	b, k, a	Wang et al, 1993;

Feniks	Croatia	null	7+9	2+12	c, c, a	Jurkovic et al, 2000;
Fenman	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Ferdinand	Austria	1	7+9	5+10/2+12	a, c, d/a	Brausgruber et al, 1994; Groger et al, 1997; Groger et al, 1997
Fertil	France	1/null	17+18/7	3+12	a/c, i/a, b	Kazman and Lein, 1996; Branlard and Le Blank, 1985;
Fertodi-293	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005
Fertyl-cambier	France	null	7	3+12	c, a, b	Branlard and Le Blank, 1985;
Festiguay	Australia	2*	17+18	5+10	b, i, d	Cornish, 2005;
Festin	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Festival	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005;
Festival	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Feuvert	France	null	7+8	2+12	c, b, a	Branlard et al, 2003;
Fiamma	Italy	1	6+8/20	2+12/5+10	a, d/e, a/d	Pogna et al, 1989;
Fiamma(1)	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989

Fiamma(2)	Italy	1	20	5+10	a, e, d	Pogna et al, 1989
Fidel	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Fielder	Canada	null	20	2+12	c, e, a	Bushuk, 2006;
Fielder	U.S.A.	null/1	20	2+12/5+10	c/a, e, a/d	Ng and Pogna, 1989; Anon, 1998; Rabinovich et al, 2000b; Anon, 1998; Cornish, 2005
Fieldwin	U.S.A.	null	20	2+12	c, e, a	Rabinovich et al, 2000b;
Fife	Canada	1/null	7/20/7+9	2+12/5+10	a/c, a/e/c, a/d	Anon, 1998; Cornish, 2005
Fife-tuscan	New Zealand	d	6+8	2+12	d, d, a	Griffin, 1994; Griffin et al, 2001;
FILIN	CIMMYT-4TH HRWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Filippo	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Fillmore	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
FINK/BUC	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Fiocco	Italy	1/2*	7+9	5+10	a/b, c, d	Pogna et al, 1989;
Fiocco(1)	Italy	1	7+9	5+10	a, c, d	Pogna et al, 1989

Fiocco(2)	Italy	2*	7+9	5+10	b, c, d	Pogna et al, 1989
Fiorello	Italy	1	7*+8	5+12	a, u, h	McIntosh et al, 1989; Pogna et al, 1989;
Firenze	Italy	null	7*+8/7	2+12	c, u/a, a	Pogna et al, 1989;
Firenze(1)	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989
Firenze(2)	Italy	null	7	2+12	c, a, a	Pogna et al, 1989
FIRETAIL	CIMMYT-4TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Fiton 156	Kazakhstan	2*	17+18	2+12	b, i, d	Morgounov et al 2008
Fiton 25	Kazakhstan	2*	17+18	2+12	b, i, a	Morgounov et al 2008
Fiton 42	Kazakhstan	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Fitti	Netherlands	null	6+8	5+10	c, d, d	Igrejas at al, 1999
Fiuza	Portugal	null	7+8	5+10	c, b, d	Igrejas at al, 1999
FI-301	U.S.A.	2*	13+16	5+10	b, f, d	Lookhart et al, 1993;
Flair	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;

Flambeau	France	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Flame	U.K.	null	17+18	2+12	c, i, a	Kazman and Lein, 1996;
Flameks	South Africa	1	17+18	5+10	a, i, d	Cornish, 2005;
Flameks-a	South Africa	1	17+18	5+10	a, i, d	Randal et al, 1993
Flameks-b	South Africa	2*	17+18	5+10	b, i, d	Manley et al, 1992
Flaminio	Italy	1	20/7*+8	2+12	a, e/u, a	Pogna et al, 1989;
Flaminio(1)	Italy	1	20	2+12	a, e, a	Pogna et al, 1989
Flaminio(2)	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989
Flamink	South Africa	1	7+9	5+10	a, c, d	Cornish, 2005;
Flamura-80	Romania	2*	7+8	5+10	b, b, d	Hagima et al, 1989;
Flamura-85	Romania	2*	7+8	5+10	b, b, d	Stoeva et al, 1997;
Flanders	France	null	6+8	5+10	c, d, d	Cornish, 2005;
Flavio	Italy	null	7+8	null	c, b, i	Anon, 1998;

Flavio	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Fleche-d-or	France	null/1	6+8/20	5+10	c/a, d/e, d	Branlard and Le Blank, 1985;
Fleischmann-481	Hungary	null	7+9/17+18	2+12	c, c/i, a	Gregova et al, 2004;
Fleurus	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985; Branlard et al, 2003;
Flinders	Australia	null	7+8	2+12/5+10	c, b, a/d	Anon, 1993c; Payne et al, 1987
Flinor	France	1	7	2+10/2+11	a, a, e/q	McIntosh et al, 1990; Branlard and Le Blank, 1985; Anon, 1998;
Flint	U.S.A.	1/2*	7+8	2+12	a/b, b, a	Graybosh, 1992;
FLK/HORK/6/WA4767/ /391.56D.81/14.53/3/1015.6410/4/	CIMMYT-14TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
FLK/HORK/6/WA4767/ /391.56D.81/14.53/3/1015.6410/4/	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Flodur	France	null/1	6+8(?)	null	c/a, d(?), i	Branlard and Le Blank, 1985; Anon, 1998;
Floreal	France	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b; Branlard et al, 2003;
Florence	Australia	2*	13+19	2+12	b, g, a	Graybosh, 1992;
Florence-aurore	France	2*	7+8/7+9	5+10	b, b/c, d	Branlard and Le Blank, 1985; Anon, 1998;

Florent	France	1	7+8	4+12	a, b, c	Branlard and Le Blank, 1985;
Floress	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;
Florian	Austria	null	7+9	5+10/2+12	c, c, d/a	Kazman and Lein, 1996; Groger et al, 1997;
Florida	Germany	1	6+8	5+10/4+12	a, d, d/c	Waga, 1992; Kazman and Lein, 1996;
Florin	France	1	7+8	4+12	a, b, c	Branlard et al, 2003;
Fluto	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985; Branlard et al, 2003;
FLYCATCHER	CIMMYT-14TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Fontarronco	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Fontezuela-Inta	Argentina	2*	6+8	2+12	b, d, a	Vozquez et al, 2003
Fora	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Ford	Australia	1	7+8	5+10	a, b, d	Cornish, 2005
Forlani	Italy	1	7g	2+12	a, ag, a	Pogna et al, 1989;
Formosa	Brazil	null	17+18	5+10	c, i, d	Vozquez et al, 2003

Fortin	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Fortuna	U.S.A.	2*	7+8	5+10	b, b, d	Lookhart et al, 1993; Rabinovich et al, 2000b; McLendon et al, 1993;
Fortunato	Italy	1	7+9	2+12	a, c, a	Dencic and Borojevic, 2001; Soltes-Rak, 1991; Pogna et al, 1989; Borojevic, 1990;
Forward	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Fournil	France	1/null	7+8	5+10	a/c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
FOW 1	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Fram I	Norway	2*	7+8	5+10	b, b, d	Uhlen, 1990
Fram II	Norway	2*	7+8	2+12	b, b, a	Uhlen, 1990;
Fram II	Norway	2*	7+8	2+12/5+10	b, b, a/d	Rabinovich et al, 2000b; Uhlen, 1990
Frame	Australia	1	7*+8	5+10	a, u, d	Wrigley et al, 2005
Francest	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Francia	Italy	2*	17+18	2+12	b, i, a	Borghi, 1995;
Francuska	Yugoslavia	null	7+9/13+16	2+12	c, c/f, a	Borojevic, 1990; Bedo and Lang, 2005

Frandoc	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Frankenmuth	Canada	1	7+9	2+12	a, c, a	Bushuk, 2006;
Frankenmuth	U.S.A.	1	7+9	2+12	a, c, a	Ng and Pogna, 1989; Lookhart et al, 1993; Anon, 1998;
Frassineto-405	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Frassino	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Freccia	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Fredrick	Canada	2*	7+9	2+12	b, c, a	Ng and Pogna, 1989; Anon, 1998;
Free-gallipoli	Australia	1	14+15	5+10	a, h, d	Cornish, 2005;
Freeman	U.K.	1	7	2+12	a, a, a	Cornish, 2005;
Fregat	Germany	1	7+9	2+12	a, c, a	Kazman and Lein, 1996;
Fregat-odesskii	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Fresco	U.K.	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Fridolin	Austria	1	7+9	5+10	a, c, d	Groger et al, 2005

Friedland	France	null	6+8	5+10	c, d, d	Branlard et al, 2003;
Frigor	France	null	7	3+12	c, a, b	Branlard and Le Blank, 1985;
Fronodoso	Brazil	2*/null	13+19	2+12	b/c, g, a	Lookhart et al, 1993; Rabinovich et al, 2000a; Anon, 1998;
Frontana	Brazil	null	7+8	2+12	c, b, a	Anon, 1998;
Frontana	Canada	null	7+8	2+12	c, b, a	Bushuk, 2006;
Fronteira	Brazil	2*	13+16	2+12	b, f, a	Cornish, 2005
Frontier	U.K.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Froya	Norway	2*	7+8/7+9	2+12/5+10	b, b/c, a/d	Rabinovich et al, 2000b; Uhlen, 1990
Fruhgold	Germany	null	7+8	5+10	c, b, d	Rogers et al, 1989;
Fruhprobst	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Fruskogorka	Yugoslavia	2*	20/7+9	5+10	b, e/c, d	Vapa, 1989; Soltes-Rak, 1991; Kolster et al, 19881; Dencic, 2001;
FTA/CJ71/ /FURY/KAL*3/3/PVN/5/PATO/ON/ /MAYA/4/BB/3/	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Fu-63	China	1	7+8	2	a, b, k	Xue-Yong et al, 2002

Fuba	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Fufan-17	China	null	7+8	2+12	c, b, a	He et al, 1992;
Fujimikomugi	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
FUJING 5114	CIMMYT-8TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
Fujing-5114	China	null	7+9	2+12	c, c, a	He et al, 1992;
Fukuhokomugi	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Fukuwasekomugi	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Fulbarn	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Fulcaster	U.S.A.	1	7+8	2+12/5+10	a, b, a	Graybosh, 1992; Anon, 1998; Rabinovich et al, 2000a;
Fulgero	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Fulmine	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989;
Fulton	U.S.A.	1	7+8	3+12	a, b, b	Graybosh, 1992;
Fultz	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;

Fumai-13	China	null	7+8	2+12	c, b, a	He et al, 1992;
Fundacep-29	Brazil	2*	17+18	2+12	b, i, a	Vozquez et al, 2003
Fundin	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Fundulea	Romania	null	7+8	2+12	c, b, a	Galova et al, 2001
Fundulea-133	Romania	2*	7+9	5+10	b, c, d	Hagima et al, 1989;
Fundulea-1502-w-21-2	Romania	null	7+9	5+10	, c, d	Waga, 1992;
Fundulea-29	Romania	null/2*	7+9	5+10	c/b, c, d	Hagima et al, 1989; Rabinovich et al, 2000b; Galova et al, 2001
Fundulea-4	Romania	null	7+9	5+10	c, c, d	Waga, 1992; Hagima et al, 1989;
Funello	Italy	1	20	5+12/2+12	a, e, h/a	Pogna et al, 1989;
Funello(1)	Italy	1	20	5+12	a, e, h	Pogna et al, 1989
Funello(2)	Italy	1	20	2+12	a, e, a	Pogna et al, 1989
Funo	Italy	1	20/17+18	2+12/5+9	a, e/i, a/g	He et al, 1992; Pogna et al, 1989
Funo-r-210	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;

Funotto	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Furore	Austria	1	7	5+10	a, a, d	Groger et al, 2005
Furutsumasari	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
FURY-KEN/SLM/ /ALDAN/4/PAT10/ALD/ /PAT72300/3/PVN	CIMMYT-4TH HRWYT	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Fuscello	Italy	2*	7+9	5+10	b, c, d	Pogna et al, 1989;
Futur	Germany	null	7+8	2+12	c, b, a	Branlard et al, 2003; Rogers et al, 1989;
Fuyang-3665	China	2*	7+8	2+12	b, b, a	Wang et al, 1993;
FW73830CP.10	CIMMYT-3RD FAWWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Ga-1123	U.S.A.	1	13+16	2+12	a, f, a	Graybosh, 1992;
GAA//PRL/VEE#6	CIMMYT-14TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
GAA/BOW	CIMMYT-14TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
GAA/BOW	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
GAA/PRL	CIMMYT-16TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;

GAA/PRL	CIMMYT-6TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Gabbiano	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Gabo	Australia	null/2*	17+18	2+12	c/b, i, a	Branlard et al, 2003; Anon, 1998;
Gabo-55	Mexico	null	17+18	-	, i,	Rabinovich et al, 2001;
Gabo-56	Mexico	null	17+18	-	, i,	Rabinovich et al, 2001;
Gaboto	Argentina	2*/null	7+8	5+10/2+12	b/c, b, d/a	Cornish, 2005;
Gagliardo	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Gaillard	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Gaines	U.S.A.	1	7+9	3+12	a, c, b	Rabinovich et al, 2000b;
Gala	Australia	2*	17+18/7+9	2+12	b, i/c, a	May, 2004; Lawrence, 1986
Gala	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985; Branlard et al, 2003;
Galahad	U.K.	null	7	2+12	c, a, a	Branlard et al, 2003;
Galaxie	France	null	6+8	5+10	c, d, d	Branlard et al, 2003;

Gallini	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Gallo	Italy	null	6+8	2+12	c, d, a	Pogna et al, 1989;
Gallo	Mexico	2*	7+8	5+10	b, b, d	Cornish, 2005;
GALVEZ S 87	CIMMYT-6TH SAWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
Galvez-87	Mexico	1	17+18	5+10	a, i, d	Rabinovich et al, 2000b;
Gambee	Australia	2*	7+9	2+12	b, c, a	Cornish, 2005;
Gambrinus	Austria	1	7+8	2+12	a, b, a	Rogers et al, 1989;
Gamenya	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005; Anon, 1993c;
Gamenya_W	Australia	2*	17+18	2+12	b, i, a	Cornish, 2007;
Gamin	France	1	7+8	4+12	a, b, c	Cornish, 2005;
Gamonal	Spain	null	13+16	2+12	c, f, a	Ruiz et al, 2002;
Gamtoos	South Africa	1	7+9	5+10	a, c, d	Cornish, 2005;
Gamut	Australia	1	17+18	2+12	a, i, a	Cornish, 2005;

Gandum-kalak	Afghanistan	null	7+8	2+12	c, b, a	
Gandum-mauree-zaachey	Afghanistan	null	7+8	2+12	c, b, a	
Ganmai-44	China	1	7+8	2+12	a, b, a	He et al, 1992;
Ganmai-8	China	1	7+8	5+9/2+12	a, b, g/a	He et al, 1992; Khan et al, 1989
Gansu-96	China	null	7+8	null	c, b, i	Khan et al, 1989
Gaocheng 8901	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Gaoyou 503	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Garant	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Garden	India	i	-	-	i, ,	McIntosh et al, 1990;
Garibaldino	Italy	1	18*	2+12	a, ae, a	Pogna et al, 1989;
Gariep	South Africa	1	7+9	5+10	a, c, d	Cornish, 2005
Garnet	Canada	null/2*	7+9	5+10	c/b, c, d	Ng and Pogna, 1989; Rabinovich et al, 2000a; Anon, 1998;
Garnet	Canada	null	7+9	5+10	c, c, d	Bushuk, 2006;

Gasta	U.S.A.	2*	13+19	5+10	b, g, d	Graybosh, 1992; Wegrzun et al, 1998;
Gatcher	Australia	1	17+18	2+12	a, i, a	Cornish, 2005;
Gavroche	France	1	7+8	5+10	a, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Gawain	U.K.	null	6+8	2+12	c, d, a	Anon, 1998;
GBA Combat	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
GBA Ruby	Australia	2*	17+18	5+10	b, i, d	Wrigley et al, 2005
GBA Sapphire	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
GBA Shenton	Australia	2*	17+18	2+12	b, i, a	Wrigley et al, 2005
Gelderse-ris	Netherlands	1/null	7+8	2+12	a/c, b, a	Gregova et al, 2004;
Gelpa	France	null	7+9	5+10	c, c, d	Branlard and Le Blank, 1985;
Gemelli	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Gemini	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
GEN*3/PVN	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;

GEN*3/PVN	CIMMYT-4TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
GEN*3/WHT	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
GEN/3/GOV/AZ/ /MUS/4/BUC/MOR/5/HD2359/3/GOV/AZ/ /MUS	CIMMYT-4TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
General	Germany	null	7	2+12	c, a, a	Rogers et al, 1989;
Generoso	Italy	1	7/z	2+12	a, a/z, a	Pogna et al, 1989; Pogna et al, 1989
Genesis	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
Genesis	France	null	17+18	3+12	c, i, b	Kazman and Lein, 1996;
Genesis (HY 355)	Canada	1	7+8	2+12	a, b, a	Bushuk, 2006;
Genial	France	null	7	5+10	c, a, d	Kazman and Lein, 1996; Branlard et al, 2003;
Genio	Italy	2*	7+8	2+12	b, b, a	Borghi, 1995;
Genro	U.S.A.	null	7	3+12	c, a, b	Rayfuse and Jones, 1993;
Gent	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Georg	Austria	1	7+9	5+10	a, c, d	Kazman and Lein, 1996; Groger et al, 1997;

Gerbier	France	1	7+8	5+10	a, b, d	Branlard et al, 2003;
Gerek-79	Turkey	2*	7+8	2+12	b, b, a	Sanal et al, 2005
Geurumil	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Ghouff (Cltr-7082)	Algeria	null	20/7+8	-	c, e/b, -	Carillo et al, 2005;
Ghurka	Australia	1	20	2+12	a, e, a	Cornish, 2005;
Gianni	Italy	null	7+8/20	null	c, b/e, i	Anon, 1998;
Giano	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Gigantil	Portugal	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;
Giles	Australia	1	17+18	2+12	a, i, a	Wrigley et al, 2005
Gilma	France	null	20	5+10	c, e, d	Branlard and Le Blank, 1985;
GIM/BUC	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Giovanni-raineri	Italy	1	23+18	-	a, p,	Vallega and Waines, 1987;
Gipsy	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;

Gisella	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Giuliana	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
GJO/TRM//BDA/HUAC/3/VEE#6	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
GJO/TRM//BDA/HUAC/3/VEE#6	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
GK-Abel	Hungary	null	7+9	5+10	c, c, d	Bedo and Lang, 2005
GK-Aron	Hungary	null	7+9	2+12	c, c, a	Bedo and Lang, 2005
GK-Ati	Hungary	1	7*+9	5+10	a, c, d	Békés et al 2008
GK-Bagoly	Hungary	2*	6+8	5+10	b, d, a	Békés et al 2008
GK-Barna	Hungary	1	7	2+12	a, a, a	Bedo and Lang, 2005
GK-Basa	Hungary	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
GK-Bekes	Hungary	2*	7*+8	5+10	b, u, a	Békés et al 2008
GK-Boglar	Hungary	null	6+8	2+12	c, d, d	Békés et al 2008
GK-Bucsanyi 20	Hungary	null	7*+9	5+10	c, c, d	Békés et al 2008

GK-Cinege	Hungary	2*	7*+8	5+10	b, u, d	Békés et al 2008
GK-Csanad	Hungary	null	7+9	5+10	c, c, d	Bedo and Lang, 2005
GK-Csillag	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Csongor	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Csornoc	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Csuros	Hungary	1	7*+9	5+10	a, c, d	Békés et al 2008
GK-David	Hungary	1	7*+8	5+10	a, u, d	Békés et al 2008
GK-Delibab	Hungary	1	7*+8	5+10	a, u, d	Békés et al 2008
GK-Elet	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Favorit	Hungary	1	7*+9	5+10	a, c, d	Békés et al 2008
GK-Forras	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Garaboly	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Gergo	Hungary	1	7+8	4+12	a, b, c	Bedo and Lang, 2005

GK-Gobe	Hungary	1	7*+9	5+10	a, c, d	Békés et al 2008
GK-Hargita	Hungary	1	7*+8	5+10	a, u, d	Békés et al 2008
GK-Hattyas	Hungary	null	7*+9	5+10	c, c, d	Békés et al 2008
GK-Hattyu	Hungary	null	6+8	5+10	c, d, a	Békés et al 2008
GK-Hollo	Hungary	1	7*+9	2+12	a, c, d	Békés et al 2008
GK-Hunyad	Hungary	null	7*+9	5+10	c, c, d	Békés et al 2008
GK-Ilma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
GK-Istvan	Hungary	null	7+9	5+10	c, c, d	Bedo and Lang, 2005
GK-Jaszszag	Hungary	1	7*+9	5+10	a, c, a	Békés et al 2008
GK-Jutka	Hungary	1	7*+8	2+12	a, u, d	Békés et al 2008
GK-Kalaka	Hungary	null	7+9	5+10	c, c, d	Bedo and Lang, 2005
GK-Kalangya	Hungary	null	7+9	5+10	c, c, d	Bedo and Lang, 2005
GK-Kalasz	Hungary	1	7*+8/7*+9	5+10	a, u/c, a	Békés et al 2008

GK-Kapos	Hungary	2*	7*+8	2+12	b, u, a	Békés et al 2008
GK-Kata	Hungary	null	20	2+12	c, e, d	Békés et al 2008
GK-Kende	Hungary	null	7*+9	5+10	c, c, a	Békés et al 2008
GK-Kincso	Hungary	1	7*+9	2+12	a, c, a	Békés et al 2008
GK-Kunsag	Hungary	2*	7*+9	2+12	b, c, d	Békés et al 2008
GK-Ledova	Hungary	null	7*+8	5+10	c, u, a	Békés et al 2008
GK-Madur	Hungary	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;
GK-Malmos	Hungary	?	7*+9	2+12	?, c, d	Békés et al 2008
GK-Marcal	Hungary	2*	7*+8	5+10	b, u, a	Békés et al 2008
GK-Margit	Hungary	1	7*+8	2+12	a, u, d	Békés et al 2008
GK-Mero	Hungary	null	7*+9	5+10	c, c, d	Békés et al 2008
GK-Minaret	Hungary	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
GK-Miska	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008

GK-Mura	Hungary	null	7*+8	5+10	c, u, a	Békés et al 2008
GK-Olt	Hungary	null	6+8/7*+8	2+12	c, d/u, a	Békés et al 2008
GK-Orseg	Hungary	null	7	2+12	c, a, a	Békés et al 2008
GK-Orseg	Hungary	null	7	2+12	c, a, a	Bedo and Lang, 2005
GK-Orzse	Hungary	1	6+8	2+12	a, d, a	Bedo and Lang, 2005
GK-Othalom	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Petur	Hungary	2*	6+8	5+10	b, d, d	Békés et al 2008
GK-Piacos	Hungary	null	7*+9	5+10	c, c, d	Békés et al 2008
GK-Pinka	Hungary	1	7*+9	5+10	a, c, d	Békés et al 2008
GK-Pusztaszer	Hungary	1	7	2+12	a, a, a	Bedo and Lang, 2005
GK-Raba	Hungary	null	7*+9	5+10	c, c, d	Békés et al 2008
GK-Repce	Hungary	1	6+8	5+10	a, d, d	Békés et al 2008
GK-Rubin	Hungary	1	7*+8	5+10	a, u, a	Békés et al 2008

GK-Sagvari	Hungary	null	7*+9	2+12	c, c, d	Békés et al 2008
GK-Sas	Hungary	2*	6+8	5+10	b, d, a	Békés et al 2008
GK-Szala	Hungary	2*	7*+8	2+12	b, u, d	Békés et al 2008
GK-Szalka	Hungary	null	7*+8	5+10	c, u, a	Békés et al 2008
GK-Szeged	Hungary	1	7*+9	2+12	a, c, d	Békés et al 2008
GK-Szindbad	Hungary	null	7*+9	5+10	c, c, d	Békés et al 2008
GK-Szivarvany	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Szoke	Hungary	null	7+9	5+10	c, c, d	Bedo and Lang, 2005
GK-Tavaszi	Hungary	2*	17+18	2+12	b, i, a	Békés et al 2008
GK-Tenger	Hungary	1	7*+9	2+12	a, c, d	Békés et al 2008
GK-Tisza	Hungary	2*	7*+9	5+10	b, c, d	Békés et al 2008
GK-Tiszataj	Hungary	2*	7*+9	5+10	b, c, a/d	Békés et al 2008
GK-Tunder	Hungary	1	7*+9/7*+8	2+12/5+10	a, c/u, d	Békés et al 2008

GK-Veka	Hungary	1	7*+9	5+10	a, c, d	Békés et al 2008
GK-Verecke	Hungary	2*	7*+9	5+10	b, c, a	Békés et al 2008
GK-Zombor	Hungary	null	7*+9	2+12	c, c, a	Békés et al 2008
GK-Zugoly	Hungary	1	7*+8	2+12	a, u, b	Békés et al 2008
Gladio	Italy	1	7+9	2+12	a, c, a	Pogna et al, 1989;
Glaive	Australia	1	7+9/17+18	5+10	a, c/i, d	May, 2004; Lawrence, 1986
Glanor	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Glenlea	Canada	2*	OE7+8*	5+10	b, al, d	McIntosh et al, 1991; Anon, 1998; Ng and Pogna, 1989;
Glenlea	Canada	2*	VII	5+10	b, x, d	Bushuk, 2006;
Glenman	U.S.A.	1	7+8	5+10	a, b, d	Rabinovich et al, 2000b;
Glennson-81	Mexico	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b;
Glenwari	Australia	2*	6+8	2+12	b, d, a	Cornish, 2005;
Globus	Germany	1	6+8	2+12	a, d, a	Groger et al, 2005

Glockner	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Gloire de Mont Golfier	Algeria	null	6+8/13+16	-	c, d/f, -	Carillo et al, 2005;
Glover	Australia	1	17+18	5+10	b, h, b	Cornish, 2007;
Glucub	Australia	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Glucub-70	Australia	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Gluford	Australia	1	7+8	5+10	a, b, d	Cornish, 2005
Glutinoso	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;
Gluyas	Australia	2*	20	2+12	b, e, a	Cornish, 2005;
Gluyas early	Australia	2*	20	2+12	b, e, a	Cornish, 2007;
Goal	France	1	17+18	2+12	a, i, a	Pogna et al, 1989;
Gobunmil	Korea	null	7+9	2+12	c, c, a	Hyun et al, 2001;
Goelent	France	null	6+8	5+10	c, d, d	Branlard et al, 2003;
Goens	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;

Goetz	Germany	null	6+8	5+10	c, d, d	Rogers et al, 1989;
Gogatsukomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Golden-chaff	U.S.A.	null	13+19	5+10	c, g, d	Graybosh, 1992;
Golden-return	Australia	null	7+8	2+12	c, b, a	Cornish, 2005
Goldmark	Australia	2*/1	17+18	2+12	b/a, i, a	Rabinovich et al, 2001; Wrigley et al, 2005
Golestan	Iran	null	17+18	5+10	c, i, d	Bahraei et al, 2004;
Golia	Italy	1	17+18	2+12	a, i, a	Anon. 1993d; Rabinovich et al, 2001;
Golin	Chile	1	7+9	5+10	a, c, d	Groger et al, 1997;
Golubica	Croatia	null	7+9	2+12	c, c, a	Jurkovic et al, 2000; Horvat et al, 2002;
Golubkovskaya	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Gondore	Ethipia	null	7+8	-	c, b,	Vallega, 1988; Anon, 1989;
Gonen-98	Turkey	2*	17+18	2+12	b, i, a	Sanal et al, 2005
Gongmianxiaomai	China	2*	7*+8	2+12	b, u, a	He et al, 2005;

Goodstreak	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Gorbi	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Sobko and Sozinov, 1999;
Gordon	Canada	1	7+9	2+12	a, c, a	Ng and Pogna, 1989; Anon, 1998;
Gorgona	Greece	null	17+18	2+12	c, i, a	Matsoukas and Morrison, 1991
Gorica	Croatia	1	7+9	5+10	a, c, d	Jost, 1996;
Gorlitsa	Russia	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Rabinovich et al, 2000a;
Goroke	Australia	null	7/7*+8	2+12	c, a/u, a	Anon, 1998; Wrigley et al, 2005
Goryanka	Russia	null	7+8	2+12	c, b, a	Rabinovich et al, 2000a;
GOV/AZ//MUS/3/DOD	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
GOV/AZ//MUS/3/DODO/4/BOW	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
GOV/AZ//MUS/3/KEA	CIMMYT-8TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Goya	France	null	6+8	5+10	c, d, d	Branlard and Le Blank, 1985;
GP-738	U.S.A.	null	-	5+10	, , d	Anon, 2003;

GP-739	U.S.A.	null	-	5+10	, , d	Anon, 2003;
GP-740	U.S.A.	null	-	5+10	, , d	Anon, 2003; Waga, 1992;
GP-741	U.S.A.	null	-	5+10	, , d	Anon, 2003;
GP-742	U.S.A.	null	-	2+12	, , a	Anon, 2003;
GP-743	U.S.A.	null	-	2+12	, , a	Anon, 2003;
Gradios	Austria	null	7+9	2+12	c, c, a	Groger et al, 2005
Graecum-114	Russia	2*/null	7+8	2+12	b/c, b, a	Rabinovich et al, 2001;
Granada	Germany	2*	6+8	5+10	b, d, d	Kolster et al, 1993; Groger et al, 1997; Anon, 1998; Branlard et al, 2003; Rogers et al, 1989;
Granarolo	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Granat	Chile	1	6+8	5+10	a, d, d	Groger et al, 2005
Grandin	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
GRANERO INTA	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Granero-Inta	Argentina	2*	7*+9/7+9	5+10/2+12	b, v/c, d/a	Gianibelli et al, 2002; Dubcovsky et al, 2004

Granit	Austria	null	7	2+12	c, a, a	Rogers et al, 1989;
Granite	Canada	1	7*+8	5+10	a, u, d	Morgounov et al 2008
Granka	Croatia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Granta	U.K.	null	6+8	2+12	c, d, a	Kolster et al, 1993; Anon, 1998;
Grazia	Italy	null	20/7+8	2+12	c, e/b, a	Vallega and Waines, 1987;
Grebe	Australia	null	7+9	5+10	c, c, d	Anon, 1993c; Anon, 1998;
Greece-20	Australia	null	76+8	-	, ad,	McIntosh et al, 1989;
Greek	Greece	2*	17+18	5+10	b, i, d	Cornish, 2005;
Greif	Germany	null	7	2+12	c, a, a	Kazman and Lein, 1996;
Grifo	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Gruzanka	Yugoslavia	1	7+8	2+12/5+10	a, b, a/d	Vapa, 1989; Knezevic et al, 1993;
Guanfeng 2	China	null	7*+8	5+10	c, u, d	Liu et al, 2005;
Guard	U.S.A.	2*	7+9/7+8	5+10	b, c/b, d	Anon, 1998;

Guardian	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Guberniya	Russia	1	6+8	5+10	a, d, d	Panin, 1999;
Guemgoum R'khem	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Guemgoum R'khem BD17	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Guemgoum R'khem BD3	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Guide	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Guinong-87-11	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
Gular	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005
Gun-91	Turkey	2*	17+18	5+10	b, i, d	Sanal et al, 2005
Gunbo	Sweden	1	6+8	5+10	a, d, d	Tohver et al, 2001, Tohner, 2007;
Gus	U.S.A.	2*	7+8	5+10	b, b, d	Wrigley et al, 2005
Gutha	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005; Anon, 1993c;
Guymon	U.S.A.	2*	20	5+10	b, e, d	Shan et al, 2007;

GVK 1369-2	Kazakhstan	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
GVK-1526-2	Kazakhstan	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
GVK-1860-12	Kazakhstan	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
GVK-1916-9	Kazakhstan	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
GW120	India	2*	7+9	2+12	b, d, a	Ram, 2003;
GW173	India	2*	7+8	2+12	b, b, a	Ram, 2003;
Gw-173	India	2*	6+8	2+12	b, d, a	Rao et al, 2001;
GW190	India	1	7+9	5+10	a, d, d	Ram, 2003;
Gw-190	India	1	7+9	5+10	a, c, d	Das et al, 2001;
GW273	India	2*	17+18	5+10	b, i, d	Ram, 2003;
GW322	India	2*	7+8	2+12	b, b, a	Ram, 2003;
GW496	India	2*	7+8	2+12	b, b, a	Ram, 2003;
GW503	India	2*	7+8	2+12	b, b, a	Ram, 2003;

Gyuimaly-2-17	Azerbaijan	null	7+9	2+12	c, c, a	Urazaliev,2003;
GZ156/NAC//PSN/URES/3/GEN	CIMMYT-29TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
H/B 252291	Norway	2*	14+15	2+12	b, h, a	Tohver et al, 2001, Tohner, 2007;
H-23-H-13385	Portugal	2*	13+16	2+12	b, f, a	Rayfuse and Jones, 1993;
H-45	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
H-46	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
H-4-A-H-12703	Portugal	null	13+16	2+12	c, f, a	Rayfuse and Jones, 1993;
HAAS3621-2/3/F603	CIMMYT-16TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
HacHimankomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Hacon	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Hadden	U.S.A.	null	13+16	2+12	c, f, a	Anon, 1998;
HAHN/2*WEAVER	CIMMYT-29TH IBWSN	1	13+16	5+10	a, f, d	Payne and Pena, 2006;
HAHN/2*WEAVER	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;

HAHN/2*WEAVER	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
HAHN/2*WEAVER	CIMMYT-30TH IBWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
HAHN/2*WEAVER	CIMMYT-30TH IBWSN	1	13+16	5+10/2+12	a, f, d/a	Payne and Pena, 2006;
HAHN/2*WEAVER	CIMMYT-31ST IBWSN	1	7+8	2+12	a, b, a	Payne and Pena, 2006;
HAHN/TURACO//TURACO	CIMMYT-17TH ESWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Hai	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Groger et al, 1997;
Halberd	Australia	1	7+9/20	5+10	a, c/e, d	Anon, 1998;
Halberd(a)	Australia	1	7+9/20	-	a, c/e,	Lawrence, 1986
Halberd(b)	Australia	1	20	5+10	a, e, d	Lawrence, 1986
Haldor	Germany	null	17+18	5+10	c, i, d	Tohver et al, 2001, Tohner, 2007;
Hallam	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Halland	Sweden	null/1	20/6+8	2+12/5+10	c/a, e/d, a/d	Gregova et al, 1999;
Halt	U.S.A.	1	7+8	2+10	a, b, e	Shan et al, 2007;

Hamilcar	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Hammer	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Hana	Czech Republic	null/2*	7+8	5+10	c/b, b, d	Gregova et al, 1997; Stoeva et al, 1997; Sasek et al, 1997; Sobko and Sozinov, 1999;
Hanacka-belka-krajova	Czech Republic	1	7+9	2+12	a, c, a	Gregova et al, 2004;
Hanagasakomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Hanno	Germany	1	14+15	5+10	a, h, d	Kazman and Lein, 1996;
Hans	Austria	1	7	5+10	a, a, d	Groger et al, 1997;
Hanseat	U.K.	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Hansel	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Graybosh, 1992; Lookhart et al, 1993;
Haramoun	Lebanon	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;
Hard Federation	Australia	1	7+9	5+9	a, c, g	Graybosh, 1992;
Hardi	France	2*	7	3+12/2+12	b, a, b/a	Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003;
Harding	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;

Hardired	U.S.A.	1/2*	13+19	2+12	a/b, g, a	Graybosh, 1992;
Harmankaya	Turkey	null	7+8	5+10	c, b, d	Sanal et al, 2005
Harrier	Australia	2*	17+18	2+12	b, i, a	Anon, 1993c; May, 2004;
Harrismith	Australia	2*	7*+8	2+12	b, u, a	Wrigley et al, 2005
Harrison-sans-barbee	U.S.A.	2*	20	2+12	b, e, a	Lookhart et al, 1993
Harry	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Hart	U.S.A.	2*	7+8	2+12	b, b, a	Graybosh, 1992; Lookhart et al, 1993;
Hartog	Australia	1/null	17+18/7+8	5+10	a/c, i/b, d	Anon, 1993c; Anon, 1998;
Harts	South Africa	2*	7+9	5+10	b, c, d	Cornish, 2005;
HaruHikari	Japan	null	7+8	5+10	c, b, d	Nakamura, 2000a;
Haruminori	Japan	2*	13+19	2+12	b, g, a	Nakamura, 2000a;
Harus	Canada	1	7+9	2+12	a, c, a	Ng and Pogna, 1989; Anon, 1998;
Haruyutaka	Japan	1	17+18	2+12	a, i, a	Nakamura, 2000a;

Haruyutaka	Japan	1	17+18	2+12	c, i, a	Liu et al 2008
Harvest	Canada	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Hatamasari	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Hatcher	U.S.A.	1/2*	7+8	5+10	a/b, b, d	Shan et al, 2007;
Hatvani	Hungary	1/null	7+8/7+9	5+10/2+12	a/c, b/c, d/a	Gregova et al, 1999;
Haura	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Haven	U.K.	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Hawk	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993;
Hayatokomugi	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Haymana-79	Turkey	1/2*	7+9	5+10/2+12	a/b, c, d/a	Sanal et al, 2005
Hazera-2152	Israel	null	7+8	2+12	c, b, a	Cornish, 2005;
HB208	India	2*	7+9	5+10	b, d, d	Ram, 2003;
HD 2329	CIMMYT-17TH ESWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;

HD1949	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD1982	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD2009	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD-2028	India	2*	7+9	5+10	b, c, d	Bhagwat and Bhatia, 1988;
HD2189	India	2*	17+18	2+12	b, i, a	Ram, 2003;
HD2204	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD2206/HORK//BUC/BUL	CIMMYT-14TH SAWSN	2*	17+18	5+10/2+12	b, i, d/a	Payne and Pena, 2006;
HD2206/HORK//BUC/BUL	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
HD2206/HORK//BUC/BUL	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HD2236	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD2270	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD2278	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD2281	India	2*	7+8	2+12	b, b, a	Ram, 2003;

HD2285	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD-2285	India	2*	17+18	2+12	b, i, a	Das et al, 2001;
HD2307	India	2*	17+18	2+12	b, i, a	Ram, 2003;
HD2327	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD2329	India	2*	17+18	2+12	b, i, a	Ram, 2003;
HD2380	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD2385	India	2*	17+18	2+12	b, i, a	Ram, 2003;
HD-2385	India	2*	17+18	2+12	b, i, a	Das et al, 2001;
HD2428	India	null	7+8	2+12	c, b, a	Ram, 2003;
HD2501	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HD-2501	India	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;
HD2610	India	1	7+9	5+10	a, d, d	Ram, 2003;
HD2640	India	1	7+9	2+12	a, d, a	Ram, 2003;

HD2687	India	2*	7+9	2+12	b, d, a	Ram, 2003;
HD2733	India	2*	7+9	5+10	b, d, d	Ram, 2003;
HD-2735	India	2*	7	5+10	b, a, d	Anon, 1999; Das et al, 2001;
HD-2745	India	1	7+9	5+10	a, c, d	Das et al, 2001;
HD2781	India	2*	17+18	2+12	b, i, a	Ram, 2003;
HD29/2*WEAVER	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HD29/2*WEAVER	CIMMYT-6TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
HD29/STAR	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
HD30/2*TEPOCA	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HD30/RABE	CIMMYT-6TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
HD-4502	India	null	6 + 8	-	c, d, -	Oak et al, 2004;
HD-4530	India	null	6 + 8	-	c, d, -	Oak et al, 2004;
HDR77	India	2*	7+8	2+12	b, b, a	Ram, 2003;

HE1/3*CNO79//2*SERI/3/ATTILA	CIMMYT-31ST IBWSN	2*	7	5+10	b, a, d	Payne and Pena, 2006;
HE1/3*CNO79//2*SERI/3/ATTILA	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HE1/5*CNO79//BORL95	CIMMYT-31ST IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Hebeinongda 341	China	null/1	7+9	2+12	c/a, c, a	Liu et al 2008
Hebeinongda341	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Hedba 3	Algeria	null	14+15	-	c, h, -	Carillo et al, 2005;
Hedba 3 (PI-263418)	Algeria	null	14+15	-	c, h, -	Carillo et al, 2005;
Hedba 3 -8	Algeria	null	32+33	-	c, aq, -	Carillo et al, 2005;
HeicHun-1	China	1	7+8	2+12	a, b, a	He et al, 1992;
Heiduck	Austria	null	6+8/7	5+10	c, d/a, d	Groger et al, 1997; Rogers et al, 1989; Groger et al, 1997
Heilo	Mexico	2*	17+18	5+10	c, i, d	Liu et al 2008
Heima	France	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Rabinovich et al, 2000b;
Heinrich	Germany	1	7/6+8	2+12	a, a/d, a	Rogers et al, 1989; Rogers et al, 1989

Helami-105	Germany	1	7+9	5+10	a, c, d	Hsam et al, 1995;
Helios	Germany	1	6+8	5+10	a, d, d	Hsam et al, 1995; Rogers et al, 1989;
Helle	Estonia	null/2*	7+8	2+12	c/b, b, a	Tohver et al, 2001;
Helle	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
Helmi	Estonia	2*	7+9	5+10	b, c, d	Tohver et al, 2001;
Helmi(BH25191)	Finland	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
Helvio	Portugal	null	7+8	-	c, b,	Vallega and Mello-Sampayo 1987;
Hembrilla	Spain	2*	20	3+12	b, e, b	Ruiz et al, 2002;
Hembrilla-corta-de-alta-montana	Spain	2*	20	4+12	b, e, c	Ruiz et al, 2002;
Hembrilla-de-alfaro(1)	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Hembrilla-de-alfaro(2)	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;
Hembrilla-de-blecua	Spain	1	6+8	2+12	a, d, a	Ruiz et al, 2002;
Hembrilla-de-jerga	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;

Hembrilla-de-rueda	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Hengmai-1	China	1	7+9	2+12	a, c, a	He et al, 1992;
Henong 2552	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Hercules	Canada	null	7+8/6+8	null	c, b/d, i	Anon, 1989; Vallega, 1988; Ng and Pogna, 1989; Anon, 1998;
Hercules (DT 191)	Canada	null	7+8	-	c, b, -	Bushuk, 2006;
Hereward	Netherlands	null	7+9	2+12	c, c, a	Masauskiene et al, 2002;
Hereward	U.K.	null	7+9	3+12	c, c, b	Kazman and Lein, 1996; Branlard et al, 2003;
Herisson-sans-barbes	France	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Heron	Australia	1	20	5+10	a, e, d	Cornish, 2005;
Herzi	Syria	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Herzog	Germany	null	7+9	2+12/5+10	c, c, a/d	Kazman and Lein, 1996; Groger et al, 1997; Groger et al, 1997
HesHangmai	China	null	7+8	2+12	c, b, a	He et al, 1992;
HessiscHe-landsorte	Germany	1/null	6+8	5+10	a/c, d, d	Gregova et al, 1999;

Heta	Finland	2*	6+8	5+10	b, d, d	Tohver et al, 2001;
Heurtebise	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Heyne	U.S.A.	1	17+18	5+10	a, i, d	Shan et al, 2007;
HI1077	India	2*	17+18	5+10	b, i, d	Ram, 2003;
HI385	India	2*	17+18	5+10	b, i, d	Ram, 2003;
HI617	India	null	20	2+12	c, e, a	Ram, 2003;
HI-7483 (Meghdoot)	India	2*	20	-	b, e, -	Oak et al, 2004;
HI-7747(MalvaRaj)	India	null	20	-	c, e, -	Oak et al, 2004;
HI784	India	1	17+18	2+12	a, i, a	Ram, 2003;
HI-8381	India	null	20	-	c, e, -	Oak et al, 2004;
HI977	India	2*	17+18	5+10	b, i, d	Ram, 2003;
Hi-977	India	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001; Rao et al, 2001;
Hibrido-d	Spain	null	20	-	c, e,	Anon, 1989; Vallega, 1988;

Hickling-de-mars	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Hickok	U.S.A.	1	7+9	5+10	a, c, d	Shan et al, 2007;
HIDHAB	CIMMYT-15TH SAWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
HigHbury	U.K.	null	17+18	2+12	c, i, a	Cornish, 2005;
Hikarikomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Hilgendorf-47	New Zealand	d	6+8	2+12	d, d, a	Griffin, 1994; Griffin et al, 2001;
Hilgendorf-61	New Zealand	d	6+8	2+12	d, d, a	Griffin, 1994; Griffin et al, 2001;
Hill-81	U.S.A.	2*	7	2+12	b, a, a	Lookhart et al, 1993;
Hillsdale	U.S.A.	1	6+8	2+12	a, d, a	Graybosh, 1992;
Hiplains	U.S.A.	2*	7+9	3+12	b, c, b	Graybosh, 1992;
Hira	India	1	7+8	2+12/5+10	a, b, a/d	Anon, 1998; Bhagwat and Bhatia, 1988;
Hirmand	Iran	2*	17+18	2+12	b, i, a	Bahraei et al, 2004;
Hitsumikomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;

Hiyokukomugi	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
HJA-23112	Finland	2*	13+16	5+10	b, f, d	Peltonen et al, 1993
HJA-23133	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-23329	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-23459	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-23471	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-23506	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-23531	Finland	null	7	5+10	c, a, d	Peltonen et al, 1993
HJA-23532	Finland	2*	7	5+10	b, a, d	Peltonen et al, 1993
HJA-23687	Finland	1	6+8	5+10	a, d, d	Peltonen et al, 1993
HJA-23706	Finland	2*	7+9	5+10	b, c, d	Peltonen et al, 1993
HJA-23707	Finland	2*	7+9	5+10	b, c, d	Peltonen et al, 1993
HJA-23731	Finland	2*	7+9	5+10	b, c, d	Peltonen et al, 1993

HJA-23735	Finland	1	7+8	5+10	a, b, d	Peltonen et al, 1993
HJA-23817	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-23823	Finland	2*	7+9	5+10	b, c, d	Peltonen et al, 1993
HJA-23843	Finland	2*	7+8	5+10	b, b, d	Tohver et al, 2001, Tohner, 2007;
HJA-23957	Finland	1	7+9	5+10	a, c, d	Peltonen et al, 1993
HJA-24005	Finland	null	7+9	5+10	c, c, d	Peltonen et al, 1993
HJA-24011	Finland	null	7+8	5+10	c, b, d	Peltonen et al, 1993
HJA-24167	Finland	2*	7	5+10	b, a, d	Peltonen et al, 1993
HJA-24170	Finland	2*	7	5+10	b, a, d	Peltonen et al, 1993
HJA-24171	Finland	2*	7	5+10	b, a, d	Peltonen et al, 1993
HJA-24206	Finland	1	13+16	5+10	a, f, d	Peltonen et al, 1993
HJA-24208	Finland	null	13+16	5+10	c, f, d	Peltonen et al, 1993
HJA-24210	Finland	2*	13+16	5+10	b, f, d	Peltonen et al, 1993

HJA-24276	Finland	null	7+8	5+10	c, b, d	Peltonen et al, 1993
HJA-24282	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-24360	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-24394	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-24401	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-24402	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-24403	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-24406	Finland	2*	7+8	5+10	b, b, d	Peltonen et al, 1993
HJA-24471	Finland	2*	7+9	2+12	b, c, a	Sontag et al, 1996;
Hjan Ilves	Finland	2*	7+9/7	5+10	b, c/a, d	Sontag et al, 1996;
HN-2	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Hnce-13414	Portugal	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
Hobbit	U.K.	null	7/7+8	3+12	c, a/b, b	Branlard and Le Blank, 1985; Branlard et al, 2003; Anon, 1998;

Hodac	Romania	2*	7+9	2+12	b, c, a	Popa et al, 2004
HoHenHeimer-weidenstatter	Germany	null	7+8/6+8	5+10	c, b/d, d	Gregova et al, 2004;
HoHentHurmer-14761-69	Germany	1	-	-	a, ,	Sobko and Sozinov, 1997;
Hokuriku-24	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Hokuriku-30	Japan	1	7+9	4+12	a, c, c	Nakamura, 2000a;
Hokuriku-35	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Hokuriku-39	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Holdfast	U.K.	1	7+8	5+11/5+10	a, b, al/d	Anon, 1998;
Holiday	Austria	null	6+8	2+12	c, d, a	Groger et al, 2005
Holley	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Hollis	U.S.A.	2*	17+18	5+10	b, i, d	Anon, 2006;
Homestead	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Hondo	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;

Hood	U.S.A.	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Hope	U.S.A.	1/2*	6+8/7+9	5+10/2+12	a/b, d/c, d/a	Anon, 1998; McIntosh et al, 1990; McIntosh et al, 1989; McIntosh et al, 1998; Vapa and Sanic, 1988
Hopea	Finland	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b;
Hopps	Australia	null/2*	17+18	5+10	c/b, i, d	Lawrence, 1986
Hopps-a	Australia	null	17+18	5+10	c, i, d	Lawrence, 1986
Hopps-b	Australia	2*	17+18	5+10	b, i, d	Lawrence, 1986
Horace	France	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Horani	Israel	null	7+15	-	c, z,	Vallega, 1988; Anon, 1989;
Hornblende	Australia	2*	20	2+12	b, e, a	Cornish, 2005
Hornero	Uruguay	1	7+9	5+10	a, c, d	Dubcovsky et al, 2004
Hornet	U.K.	null	6+8	2+12/5+10	c, d, a/d	Kazman and Lein, 1996;
Horoshirikomugi	Japan	null/1	7+9	2+12	c/a, c, a	Nakamura, 2000a; Maruyama-Funatsuki et al, 2004
Hostianum-237	Russia	null	7+8/7+9	5+10/2+12	c, b/c, d/a	Ya, 1997; Rabinovich et al, 2000a; Gregova et al, 1999;

Hotspur	U.K.	null	6+8	5+10/2+12	c, d, d/a	Cornish, 2005;
Hourani	Jordan	null	X.	-	c, w,	Anon, 1989; Vallega, 1988;
Houser	Canada	1	7+8	2+12	a, b, a	Bushuk, 2006;
Houser	U.S.A.	1	7+8	2+12	a, b, a	Ng and Pogna, 1989; Anon, 1998;
Houtman	Australia	1	17+18	2+12/5+10	a, i, a/d	Anon, 1993c; Anon, 1998;
HP1102	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HP1209	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HP1633	India	2*	7+9	2+12	b, d, a	Ram, 2003;
HP1731	India	2*	17+18	2+12	b, i, a	Ram, 2003;
HP1744	India	2*	7+9	2+12	b, d, a	Ram, 2003;
HP1761	India	2*	7+9	5+10	b, d, d	Ram, 2003;
HPW42	India	1	7+8	2+12	a, b, a	Ram, 2003;
HS 97-1	China	null	7+9	2+12	c, c, a	Liu et al, 2005;

HS 97-10	China	2 [*]	7+9	2+12	b, c, a	Liu et al, 2005;
HS1138	India	2 [*]	7+8	2+12	b, b, a	Ram, 2003;
HS207	India	2 [*]	17+18	5+10	b, i, d	Ram, 2003;
HS240	India	1	7+9	5+10	a, d, d	Ram, 2003;
HS295	India	2 [*]	17+18	2+12	b, i, a	Ram, 2003;
HS365	India	1	7+9	2+12	a, d, a	Ram, 2003;
HS86	India	2 [*]	17+18	5+10	b, i, d	Ram, 2003;
HS97-1	China	null/1	7+9	2+12	c/a, c, a	Liu et al 2008
HS97-10	China	2 [*]	7+9	2+12	b, c, a	Liu et al 2008
Huadong-6	China	2 [*]	17+18	5+10	b, i, d	He et al, 1992;
Huaimai 16	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Huaimai 17	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Huaimai 18	China	1	7+8	5+10	a, b, d	Liu et al, 2005;

Huaimai 894	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Huangguangxian	China	null	7+8	2+12	c, b, a	He et al, 1992;
HuangHai-103	China	null	17+18	-	,i,	Nakamura, 2000b;
Huanil-inia	Chile	2*	17+18	2+12	b, i, a	Vozquez et al, 2003
Huayun-inia	Chile	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Hubertus	Austria	1	6+8	5+10	a, d, d	Groger et al, 1997;
Hudsons-early-purple-straw	Australia	1	20	2+12	a, e, a	Cornish, 2005
Huelquen	Chile	2*	7+9	2+12	b, c, a	Cornish, 2005;
Hugenoot	South Africa	2*	7+9	5+10	b, c, d	Cornish, 2005
Huguenot	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005;
Hume	U.S.A.	1	6+8/7+9	2+12	a, d/c, a	Graybosh, 1992;
Hungarian	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Hunter	U.K.	null	17+18	2+12	c, i, a	Kazman and Lein, 1996;

Hunter	U.S.A.	2*	6+8	2+12	b, d, a	Graybosh, 1992; Lookhart et al, 1993;
Huntsman	U.K.	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003; Rogers et al, 1989;
Huquin	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;
Huron	Canada	2*	7+8	2+12	b, b, a	Anon, 1998; Rabinovich et al, 2000b;
Hussar	U.K.	2*/null	6+8/7+9	3+12	b/c, d/c, b	Kazman and Lein, 1996; Griffin et al, 2001; Cornish, 2005
Hussar	U.S.A.	2*/1	7+9	5+10	b/a, c, d	Anon, 1998;
Hustler	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
HUW 234	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
HUW206	India	1	7+9	5+10	a, d, d	Ram, 2003;
HUW234	India	2*	7+8	2+12	b, b, a	Ram, 2003;
Huw-234	India	2*	7+8	2+12	b, b, a	Rao et al, 2001;
HUW318	India	1	7+9	5+10	a, d, d	Ram, 2003;
HUW468	India	2*	7+8	2+12	b, b, a	Ram, 2003;

HUW533	India	null	20	2+12	c, e, a	Ram, 2003;
HuzHou-21	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
HW- 19	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 24	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 27	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 28	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 65	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 66	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 67	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 68	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW- 70	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
HW- 71	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
HW- 72	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;

HW- 75	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW Alpha	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
HW-2	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
HW2004	India	null	20	2+12	c, e, a	Ram, 2003;
HW2045	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HW-63	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
HW741	India	2*	7+8	2+12	b, b, a	Ram, 2003;
HXL7495/3/PFAU/BO	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HXL7528/ /VEE#5/SARA/3/VEE#5/SARA	CIMMYT-6TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HXL7528//VEE#5/SA	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HXL7573/2*BAU	CIMMYT-6TH SAWYT	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
HXL8039/3/MJI/GLE	CIMMYT-16TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
HXL8039/3/MJI/GLE	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

HXL8107/TUI//TUI	CIMMYT-16TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
HXL8246/KAUZ	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
HXL8374/2*TIA.2	CIMMYT-16TH SAWSN	2*	17+18/13+16	2+12	b, i/f, a	Payne and Pena, 2006;
HXL-F86/2*BAU	CIMMYT-6TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
HY 320	Canada	1	7+8	2+12	a, b, a	Ng and Pogna, 1989; Anon, 1998;
HY 358	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 360	Canada	null	7+9	2+12	c, c, a	Anon, 1998;
HY 361	Canada	null	7+8	2+12	c, b, a	Anon, 1998;
HY 369	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 370	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 371	Canada	null	7+9	2+12	c, c, a	Anon, 1998;
HY 377	Canada	1	7+8/17+18	2+12	a, b/i, a	Anon, 1998;
HY 382	Canada	1	7+8	2+12	a, b, a	Anon, 1998;

HY 383	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 384	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 385	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 386	Canada	1/2*	7+8/7+9	2+12/5+10	a/b, b/c, a/d	Anon, 1998;
HY 387	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 413 (AC Vista)	Canada	1	7+8	2+12	a, b, a	Bushuk, 2006;
HY 417 (AC Crystal)	Canada	1	7+8	5+10	a, b, d	Bushuk, 2006;
HY 611	Canada	2*	f	5+10	b, f, d	Anon, 1998;
HY 613	Canada	null	f	2+12	c, f, a	Anon, 1998;
HY 616	Canada	1	7+8	5+10	a, b, d	Anon, 1998;
HY 616 BSLR	Canada	1	7+8	5+10	a, b, d	Anon, 1998;
HY 617	Canada	1	17+18	5+10	a, i, d	Anon, 1998;
HY 617 BSLR	Canada	1	7+8	5+10	a, b, d	Anon, 1998;

HY 627	Canada	2*	7+8	2+12	b, b, a	Anon, 1998;
HY 630	Canada	2*	f	5+10	b, f, d	Anon, 1998;
HY 631	Canada	1	7+8	5+10	a, b, d	Anon, 1998;
HY 632	Canada	2*	7+8	2+12	b, b, a	Anon, 1998;
HY 633	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
HY 634	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
HY 804	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 933	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY 935	Canada	null	7+8	2+12	c, b, a	Anon, 1998;
HY 939	Canada	1	7+8	2+12	a, b, a	Anon, 1998;
HY-633	India	2*	7+8	5+10	b, b, d	Anon, 1998;
HY-65	India	2*	20	5+10	b, e, d	Bhagwat and Bhatia, 1988;
Hyak	U.S.A.	2*	7+8	5+10	b, b, d	Rayfuse and Jones, 1993;

HYB65	India	2*	17+18	2+12	b, i, a	Ram, 2003;
Hybrid Apollo	Australia	2*	7+8	5+10	b, b, d	Wrigley et al, 2005
HYBRID DELHI RAIN	CIMMYT-16TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Hybrid Gemini	Australia	2*	7+8/17+18	2+12	b, b/i, a	Wrigley et al, 2005
Hybrid Mercury	Australia	null	7	2+12	c, a, a	Wrigley et al, 2005
Hybrid Meteor	Australia	2*	6+8	5+10	b, d, d	Wrigley et al, 2005
Hybrid Pulsar	Australia	1/2*	7+8/17+18	2+12/5+10	a/b, b/i, a/d	Anon, 1993c; Cornish, 2005
Hybrid Titan A	Australia	2*	7+8	2+12/5+10	b, b, a/d	Anon, 1998; Lawrence, 1986
Hybrid Titan B	Australia	1	17+18	2+12/5+10/2.2+12	a, i, a/d/f	Lawrence, 1986
Hybrid-123	U.S.A.	2*	6	2+12	b, an, a	Rayfuse and Jones, 1993;
Hybrid-128	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Hybrid-21	Russia	2*	17+18	5+10	b, i, d	Obukova et al, 1998;
Hybrid-63	U.S.A.	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;

Hybride-de-bersee	France	1	7+8	4+12	a, b, c	Branlard and Le Blank, 1985;
Hybride-de-la-noue	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Hyden	Australia	2*	13+16	2+12	b, f, a	Cornish, 2005;
Hymar	U.S.A.	1	7+9	2+12	a, c, a	Rayfuse and Jones, 1993;
Hymera	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Hyslop	U.S.A.	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
I-11	China	null	7+8	2+12	c, b, a	Wei et al, 2000;
I747-19	India	null	17+18	2+12	c, i, a	Ram, 2003;
Iac-5-Maringa	Brazil	2*	13+16	2+12	b, f, a	Vozquez et al, 2003
Ian-8-pirapo	Paraguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Ian-9-iguazu	Paraguay	2*	7+9	2+12	b, c, a	Vozquez et al, 2003
Iapar-17-caete	Brazil	1	13+16	5+10	a, f, d	Vozquez et al, 2003
Iapar-28-igapo	Brazil	1	7+9	5+10	a, c, d	Vozquez et al, 2003

lapar-29-cacatu	Brazil	2*	13+16	2+12	b, f, a	Vozquez et al, 2003
lapar-53	Brazil	2*	7+8/17+18	5+10	b, b/i, d	Vozquez et al, 2003
lapar-78	Brazil	2*	7+9	2+12	b, c, a	Vozquez et al, 2003
lapar-84	Brazil	2*	7+9	5+10	b, c, d	
lapar-8745	Brazil	1	7+9	2+12	a, c, a	Schuster et al, 1997
IAS58/4/KAL/BB/ /CJ71/3/ALD/5/CNR/6/BAU/7/BAU	CIMMYT-7TH HRWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
IAS58/4/KAL/BB//CJ71/3/ALD	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
IAS58/IAS55//ALD/3/MRNG/4/ALD	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Ibis	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Ichnusa	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
ICIG 1	Russia	1	7*+9	5+10	a, c, d	Morgounov et al 2008
ICIG 3	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Id-444	U.S.A.	null	7	-	, a,	Anon, 1995;

Iena	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985; Branlard et al, 2003;
Igapo	Brazil	1	7+9	5+10	a, c, d	Vozquez et al, 2003
Ignaz	Germany	1	7+8	2+12	a, b, a	Rogers et al, 1989;
Iguazu	Paraguay	2*	7+9	2+12	b, c, a	Vozquez et al, 2003
Ii-8156-white-grain	Mexico	2*	17+18	2+12	b, i, a	Cornish, 2005;
Ikarus	Austria	null	6+8	5+10	c, d, d	Groger et al, 1997; Waga, 1992;
Ike	U.S.A.	2*	7+9	5+10	b, c, d	Pike and MacRitchie, 2004;
Ikizce-96	Turkey	1	7+8	5+10	a, b, d	Sanal et al, 2005
II-1	U.S.A.	1	13+19	2	a, g, k	Graybosh, 1992;
II-2	U.S.A.	2*	6+8	2+12	b, d, a	Graybosh, 1992;
IL-75-2264/4/CAR/	CIMMYT-16TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
IL-75-2264/4/CAR/ /KAL/BB/3/NAC/5/GAA	CIMMYT-4TH SAWYT	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
IL-75-2264/4/CAR/ /KAL/BB/3/NAC/5/GAA	CIMMYT-6TH SAWYT	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;

Ilias	Netherlands	1	7+9	5+10	a, c, d	Groger et al, 2005
Ilichevka	Ukraine	1	7+9	5+10	a, c, d	Cerny, et al 1989; Morgunov et al, 1990; Ya, 1997;
Iloná	Slovak Republic	2*/null	7+9	5+10	b/c, c, d	Gregova et al, 1997; Sasek et al, 1997;
Ilva Mare	Romania	null	7j	5+10	c, aj, d	Popa et al, 2004
Ilves	Finland	2*	7	5+10	b, a, d	Cornish, 2005;
Imbros	Germany	1	14+15	2+12	a, h, a	Kazman and Lein, 1996;
Imeni-rapoporta	Russia	1/2*	7+9	5+10	a/b, c, d	Ya, 1997;
Impact	New Zealand	1/2*	7/6+8	2+12	a/b, a/d, a	Griffin et al, 2001; Cornish, 2005
Impeto	Italy	1	7+8/7*+8	2+12	a, b/u, a	Pogna et al, 1989;
Impetuoso	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Improved-kenya	South Africa	1	17+18	2+12	a, i, a	Manley et al, 1992
Ina	Czech Republic	null	7+9	5+10	c, c, d	Sasek et al, 1997;
Inallettabile-210	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;

Inbar	Israel	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
India-115	India	null	7+8	2+12	c, b, a	Anon, 1998;
Indus-79	Pakistan	2*	17+18	5+10	b, i, d	Tahir et al, 1995;
Industrial	Brazil	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Infinity CL	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Inia	Iran	1	b	5+10	a, b, d	Bahraei et al, 2004;
Inia	Mexico	1	13+16	5+10	a, f, d	Lukow et al, 1989
Inia-66	Mexico	1/2*	13+16/7+8	5+10	a/b, f/b, d	Rabinovich et al, 2000a; Anon, 1998;
INIA66/TH.DI/ /INIA66/3/VEE/4/2*TURACO	CIMMYT-17TH ESWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Inia-Boyero	Uruguay	2*	7+9	5+10	b, c, d	Cornish, 2005
Inia-Buho	Uruguay	2*	7*+8	5+10	b, u, d	Vozquez et al, 2003
Inia-Cabure	Uruguay	null	7+8	5+10	c, b, d	Vozquez et al, 2003
Inia-Chimango	Uruguay	2*	7*+8	5+10	b, u, d	Vozquez et al, 2003

Inia-Churrinche	Uruguay	2*	7*+8	5+10	b, u, d	Vozquez et al, 2003
Inia-Gorrion	Uruguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Inia-Mirlo	Uruguay	2*/1	7+9	5+10	b/a, c, d	Vozquez et al, 2003
Inia-Tijereta	Uruguay	2*	17+18	5+10	b, i, d	Vozquez et al, 2003
INIFAP M 97	CIMMYT-30TH IBWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
Inna	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Inox	Italy	null	7	5+10	c, a, d	Pogna et al, 1989;
INQALAB 91	CIMMYT-30TH IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Inquilab-91	Pakistan	2*	7+9	5+10	b, c, d	Tahir et al, 1995;
Insignia	Australia	1	20	5+10	a, e, d	Anon, 1998; Branlard et al, 2003;
Insignia-49	Australia	1	20	5+10	a, e, d	Cornish, 2005
Intrada	U.S.A.	2*	20	5+10	b, e, d	Shan et al, 2007;
Invader	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;

Iobred	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Iohardi	U.S.A.	2*	7+8/7+9	2+12	b, b/c, a	Graybosh, 1992;
Ioturk	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Iren	Russia	2*	7*+8	2+12	b, u, d	Morgounov et al 2008
IRENA	CIMMYT-14TH SAWSN	2*	7+9	2+12/5+10	b, c, a/d	Payne and Pena, 2006;
IRENA	CIMMYT-4TH HTWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
IRENA	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
IRENA/KAUZ	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
IRENA/WEAVER	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
IRENA/WEAVER	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Irgina	Russia	2*	7+8	2+12	b, b, a	Morgunov et al, 1990; Bespalov, 1994;
Iris	Slovak Republic	null	7+9	2+12	c, c, a	Sasek et al, 1997; Gregova et al, 1997;
Irkutyanka-90	Russia	null	7+9	5+10	c, c, d	Rabinovich et al, 2001; Bespalov, 1994;

Irnerio	Italy	1	7*+8/7+8	5+10	a, u/b, d	Pogna et al, 1989; Pogna et al, 1989
Irtyshtanka-10	Russia	2*/null	7+9	2+12	b/c, c, a	Morgunov et al, 1990; Bespalov, 1994;
Isa-1	Italy	null	13+16	-	c, f,	Vallega and Waines, 1987;
Isabel	Italy	2*	17+18	2+12	b, i, a	Pogna et al, 1989;
ISD-75-3-1/MO88//PRL/VEE#6	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ISD-75-3-1/MO88//PRL/VEE#6	CIMMYT-31ST IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Isheevskaya	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001; Bespalov, 1994;
Isidor	Germany	null	7+8	2+12	c, b, a	Rogers et al, 1989;
Isis	Australia	2*	7	2+12	b, a, a	Cornish, 2005;
Iskra	Yugoslavia	1	7+9/7	5+10	a, c/a, d	Vapa, 1989;
Israel-493	Israel	2*/1	7+9/17+18	2+12	b/a, c/i, a	Cornish, 2005;
Istok	Russia	2*	7+9/7+8	5+10	b, c/b, d	Ya, 1997; Rabinovich et al, 2000a;
Istra	Croatia	null	22	2+12	c, k, a	Vapa, 1989;

Itana	U.S.A.	1	7+8/7+9	2+12	a, b/c, a	Graybosh, 1992;
Itapua-40-obligado	Paraguay	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Iumillo	U.S.A.	null	6+8	-	c, d,	Vallega, 1988; Anon, 1989;
Ivanivska-ostista	Ukraine	1	7+8/7+9	5+10	a, b/c, d	Ya, 1997; Sobko and Sozinov, 1999;
Ivanovskaya-ostistaya	Ukraine	1	7+8/7+9	5+10	a, b/c, d	Ya, 1997; Sobko and Sozinov, 1999;
Ivolga	Russia	1	7+9	2+12	a, c, a	Rabinovich et al, 2001; Bespalov, 1994;
IWP72	India	2*	6+8	2+12	b, d, a	Ram, 2003;
Iyokomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Izmir-85	Turkey	2*	7+9	5+10	b, c, d	Sanal et al, 2005
Izumrudnaya	Russia	2*	7+8/7+9	2+12	b, b/c, a	Rabinovich et al, 2001;
J.93043	CIMMYT-4TH HRWYT	null	17+18/7+9	5+10	c, i/c, d	Payne and Pena, 2006;
J-97031	Argentina	1/2*	13+16	5+10	a/b, f, d	Vozquez et al, 2003
Jabiru	Australia	1/null	20	5+10	a/c, e, d	Anon, 1998;

Jabiru-a	Australia	1	20	5+10	a, e, d	Lawrence, 1986
Jabiru-b	Australia	null	20	5+10	c, e, d	Lawrence, 1986
JACANA/RHEA	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Jacmar	U.S.A.	null	7+9	2+12	c, c, a	Rayfuse and Jones, 1993;
Jacometti-23	Italy	1	720/7*+8	5+10	a, ae/u, d	Pogna et al, 1989;
Jacometti-23(1)	Italy	1	18*	5+10	a, ae, d	Pogna et al, 1989
Jacometti-23(2)	Italy	1	7*+8	5+10	a, u, d	Pogna et al, 1989
Jacometti-49	Italy	1	7*+8	5+10	a, u, d	Pogna et al, 1989;
Jacup	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Jagalene	U.S.A.	1/2*	17+18	5+10	a/b, i, d	Shan et al, 2007;
Jagger	U.S.A.	1	17+18	5+10	a, i, d	Pike and MacRitchie, 2004;
Jaguar	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Rogers et al, 1989;
JaiRaj	India	null	6 + 8	-	c, d, -	Oak et al, 2004;

Jano	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985; Branlard et al, 2003;
Janz	Australia	1	7+8/7*+8	2+12	a, b/u, a	Anon, 1993c; Wrigley et al, 2005
Japigia	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Jara	Czech Republic	1	7+9	2+12	a, c, a	Gregova et al, 1997; Rabinovich et al, 2000b;
Jarka	Yugoslavia	null	7	2+12	c, a, a	Rabinovich et al, 2000b; Vapa and Sanic, 1988;
Javardo	Portugal	1	6+8	-	a, d,	Vallega and Mello-Sampayo 1987;
Javelin	Australia	1	20/7+9	5+10	a, e/c, d	May, 2004; Galova et al, 2001
Jawa	Poland	null	7+9	-	, c,	Waga, 1992;
Jay	India	null	20	-	c, e, -	Oak et al, 2004;
Jeff	U.S.A.	1/2*	7+9	2+12/5+10	a/b, c, a/d	Graybosh, 1992; Lookhart et al, 1993;
Jeja	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Jeja-almendros	Spain	null	34+35	-	, ar,	McIntosh et al, 1991; McIntosh et al, 1998;
Jeja-candeal	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;

Jeja-canifina	Spain	2*	20	3+12	b, e, b	Ruiz et al, 2002;
Jeja-colorada-de-cenizate	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;
Jeja-de-cieza	Spain	2*	7+9	2+12	b, c, a	Ruiz et al, 2002;
Jeja-de-minaya	Spain	1	20	2+12	a, e, a	Ruiz et al, 2002;
Jenah Khotaifa	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Jenkin	U.S.A.	2*	6+8	2+12	b, d, a	Rayfuse and Jones, 1993;
Jerez-1937	Spain	null	6+8	-	c, d,	Vallega, 1988;
Jerico	France	1	7+9	5+10	a, c, d	Cornish, 2005;
Jesse	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Ji 3475	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Ji 3475	China	null/1	7+8	2+12	c/a, b, a	Liu et al 2008
Ji 5099	China	1	17+18	2+12	a, i, a	He et al, 2005;
Ji 5219	China	1	7+9	4+12	a, c, c	Liu et al, 2005;

Ji 95-6023	China	null	20	2+12	c, e, a	Liu et al, 2005;
Ji Z76	China	null/1	14+15	4+12	c/a, h, c	Liu et al 2008
Ji-5418	China	null	7+9	2+12	c, c, a	He et al, 1992;
Ji-83-5180-10	China	null	7+8	2+12	c, b, a	He et al, 1992;
Ji-84-5103	China	1	7+9	2+12	a, c, a	He et al, 1992;
Ji-86-5	China	1	17+18	5+10	a, i, d	He et al, 1992;
Ji-87-4109	China	null	7+9	2+12	c, c, a	He et al, 1992;
Ji-87-4314	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Ji-88-5Vapa, 1989	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Ji-89-6232	China	1	7+8	2+12	a, b, a	He et al, 1992;
Jiangdongmen	China	null	7+8	2+12/5+9	c, b, a/g	He et al, 1992; Khan et al, 1989
Jiaoguotou	China	null	7+8	2+12	c, b, a	He et al, 1992;
Jihan 197	China	null	7+9	2+12	c, c, a	He et al, 2005;

Jimai 1	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Jimai 19	China	null/1	7a*+8	2+12	c/a, b, a	Liu et al 2008
Jimai 20	China	null/1	13+16	4+12	c/a, f, c	Liu et al 2008
Jimai 24	China	null/1	OE7+8b*	2+12	c/a, al, a	Liu et al 2008
Jimai 26	China	2*	7+9	2+12	b, c, a	He et al, 2005;
Jimai 30	China	null	7+9	2+12	c, c, a	He et al, 2005;
Jimai 31	China	2*	7+9/7+8	2+12	b, c/b, a	He et al, 2005;
Jimai 36	China	null	7+9	2+12	c, c, a	He et al, 2005;
Jimai 38	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Jimai-13	China	1	7+9	2+12	a, c, a	He et al, 1992;
Jimai-21	China	null	7+8	5+9	c, b, g	Xue-Yong et al, 2002
Jimai-2148	China	1	7+8	2+12	a, b, a	Khan et al, 1989
Jimai-23	China	1	7+9/7+8	2+12	a, c/b, a	Wang et al, 1993; He et al, 1992;

Jimai-24	China	1	7+8	2+12	a, b, a	He et al, 1992;
Jimai-25	China	1	7+9	2+12	a, c, a	He et al, 1992;
Jimai-26	China	2*	7+9	2+12	b, c, a	Wang et al, 1993;
Jimai-3	China	null	6+8	2+12	c, d, a	Wang et al, 1993;
Jimai-30	China	null	7+9	2+12	c, c, a	He et al, 1992;
Jimai-33	China	1	7+8	2+12	a, b, a	He et al, 1992;
Jimai-7	China	1	7+9	2+12	a, c, a	He et al, 1992;
Jinan-13	China	1	7+9	5+9/2+12	a, c, g/a	He et al, 1992; Wang et al, 1993; Xue-Yong et al, 2002
Jinan-2	China	null	7+8	5+9	c, b, g	Xue-Yong et al, 2002
Jinan-9	China	null	7+9	5+9	c, c, g	Xue-Yong et al, 2002
Jinfeng-1	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Jing 9428	China	2 ⁺	7+8	2+12	b, b, a	Liu et al, 2005;
Jing 9428	China	2 ⁺	7+8	2+12	b, b, a	Liu et al 2008

Jing-10835	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Jing-411	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Jing-6226	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Jing-83-175	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Jing-83-192	China	null	7+9	2+12	c, c, a	He et al, 1992;
Jing-83-47	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Jing-86-53	China	null	7+9	2+12	c, c, a	He et al, 1992;
Jing-86-6554	China	null	7+9	2+12	c, c, a	He et al, 1992;
Jing-86-74	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Jingdong1	China	null	7+9	2+12	c, c, a	He et al, 1992;
Jingdong 10	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Jingdong 6	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Jingdong 8	China	null	7+9	2+12	c, c, a	He et al, 2005;

Jingfeng 1	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Jinghe 1	China	2*	7+8	2+12	b, b, a	He et al, 2005;
Jinghe 951	China	2 ⁺	7+8	2+12	b, b, a	Liu et al, 2005;
Jinghua-1	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
Jinghua-5	China	null	7+9	2+12	c, c, a	He et al, 1992;
Jingnong 8318	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Jingnong 97-86	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Jingnong 98-100	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Jingshuang-10	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Jingshuang-16	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Jingyou-626	China	1	7+8	2+12	a, b, a	Wang et al, 1993;
Jining 936098	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Jinmai 45	China	null	7+9	3+12	c, c, b	He et al, 2005;

Jinmai 50	China	null	7+8	3+12	c, b, b	Liu et al, 2005;
Jinmai 60	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Jinmai 61	China	1	7+8	4+12	a, b, c	Liu et al, 2005;
Jinmai 67	China	2 [*]	7+9	5+10	b, c, d	Liu et al, 2005;
Jinmai-2	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
Jinmai-21	China	2 [*]	7+9	5+10	b, c, d	He et al, 1992;
Jinmai-2148	China	1	7+8	2+12	a, b, a	He et al, 1992;
Jinmai-30	China	1	20	2+12	a, e, a	He et al, 1992;
Jinmai-31	China	1	20	2+12	a, e, a	He et al, 1992;
Jinmai-4058	China	null	7+8	2+12	c, b, a	He et al, 1992;
Jinmai-5	China	1	7+8	4+12	a, b, c	He et al, 1992;
Jinmai-50	China	null	7+8	4+12	c, b, c	Anon, 2006;
Jinmai-71	China	null	7+8	2+12	c, b, a	He et al, 1992;

Jinnong 207	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Jinnong 215	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Jinnong 216	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Jinnong 218	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Jinpummil	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Jiulan	China	null	7+8	2+12	c, b, a	He et al, 1992;
JiZ 76	China	null	14+15	4+12	c, h, c	Liu et al, 2005;
JOB666	India	null	17+18	2+12	c, i, a	Ram, 2003;
Johanna	Finland	2*	7+9	5+10	b, c, d	Sontag-Strohm, 1997;
Joleen	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Jonas	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Jonathan	Australia	1	20	2+12	a, e, a	Cornish, 2005
Jondolar	Sweden	2*	14+15	2+12	b, h, a	Kazman and Lein, 1996;

Jones-fife	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;
Joni	Estonia	2*/ null	7	2+12	b/c, a, a	Tohver et al, 2001, Tohner, 2007;
Jordao	Portugal	2*	7+8	5+10	b, b, d	Igrejas at al, 1999
Josef	Austria	1/2*	7+9	5+10	a/b, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Joss-cambier	France	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Rabinovich et al, 2000b; Branlard et al, 2003;
JU-12	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
Jubilar	Germany	null	7	3+12	c, a, b	Rogers et al, 1989;
Jubilatka	Poland	2*	6+8	2+12	b, d, a	Masauskiene et al, 2002;
Jufy-i	Belgium	null	6+8	5+10	c, d, d	Anon, 1998;
Jules	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Julius	Austria	null	6+8	5+10	c, d, d	Groger et al, 1997;
JUN/BOMB	CIMMYT-4TH SAWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
JUN/GEN	CIMMYT-6TH SAWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;

JUNCO	CIMMYT-15TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
Junreikomugi	Japan	1	7+8	2.2+12	a, b, f	Nakamura, 2000a;
JUP/ALD/ /KLT/3/VEE/4/2*PSN/BOW	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
JUP/ZP/ /COC/3/PVN/4/TNMU/5/TNMU	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
JUP/ZP//COC/3/PVN	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
JUP/ZP//COC/3/PVN/4/GEN	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Jupateco-f-73	Mexico	1	13+16	5+10	a, f, d	Rabinovich et al, 2000b;
Jura	Finland	1	7+8	5+10	a, b, d	Gregova et al, 2004;
Justin	U.S.A.	2*	7+9	5+10	b, c, d	Cornish, 2005;
Justus	Austria	null	6+8	2+12	c, d, a	Groger et al, 1997;
Juventus	Austria	null	7+8	5+10	c, b, d	Groger et al, 1997;
Jyva	Finland	2*	7+9	5+10	b, c, d	Cornish, 2005;
K-1091-1	Australia	null	17+18	2+12	c, i, a	Cornish, 2005;

K-1182	Australia	2*	13+16	5+10	b, f, d	Cornish, 2005;
K134(60)/4/TOB/BMAN/ /BB/3/CAL/5/BUC	CIMMYT-29TH IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
K134(60)/VEE//BOW	CIMMYT-16TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
K134(60)/VEE//BOW/PVN	CIMMYT-6TH SAWYT	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
K-2617	Australia	2*	17+18	5+10	b, i, d	Cornish, 2005;
K-2926-1	Australia	1	7+9	2+12	a, c, a	Cornish, 2005;
K68	India	2*	17+18	5+10	b, i, d	Ram, 2003;
K-68	India	2*	20	5+10	b, e, d	Bhagwat and Bhatia, 1988;
K7410	India	1	17+18	2+12	a, i, a	Ram, 2003;
K8027	India	2*	17+18	2+12	b, i, a	Ram, 2003;
K-88	India	1	7	5+10	a, a, d	Rao et al, 2001;
K8804	India	1	7+9	5+10	a, d, d	Ram, 2003;
K8962	India	2*	7+8	2+12	b, b, a	Ram, 2003;

K9006	India	null	17+18	5+10	c, i, d	Ram, 2003;
K9107	India	2*	17+18	2+12	b, i, a	Ram, 2003;
K-918	Iraq	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
K9465	India	1	17+18	2+12	a, i, a	Ram, 2003;
K9644	India	2*	17+18	2+12	b, i, a	Ram, 2003;
KA/NAC	CIMMYT-16TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
KA/NAC//FASAN	CIMMYT-30TH IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Kachikei-32	Japan	1	7+9	5+10	a, c, d	Maruyama-Funatsuki et al, 2004
Kachikei-33	Japan	2*	7+9	5+10	b, c, d	Maruyama-Funatsuki et al, 2004
Kachikei-34	Japan	1	7+9	2+12	a, c, a	Maruyama-Funatsuki et al, 2004
Kadett	Sweden	1	7+9	5+10	a, c, d	Groger et al, 1997; Rabinovich et al, 2000b; Branlard et al, 2003;
Kadiroglu	Turkey	1	20	-	a, e,	Anon, 1989; Vallega, 1988;
Kador	France	null	7+8	4+12	c, b, c	Cornish, 2005;

Kafue	Zimbabwe	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;
Kahla (CItr-2088)	Algeria	2*	7+8	-	b, b, -	Carillo et al, 2005;
KAL/BB/ /CJ71/3/ALD/4/OPATA/5/2*TUI	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
KAL/BB/ /CJ71/3/ALD/4/OPATA/5/CNO79*2/HE1	CIMMYT-29TH IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
KAL/BB//CJ71/3/ALD/4/OPATA/5/2*TUI	CIMMYT-30TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
Kalannie	Australia	2*	7+9	5+10/2+12	b, c, d/a	Wrigley et al, 2005
Kalipan-inia-qui-889-94	Chile	1	17+18	5+10	a, i, d	Vozquez et al, 2003
Kalkee	Australia	1	20	5+10	a, e, d	Cornish, 2005;
Kalle	Norway	1	7+9	5+10	a, c, d	Flæte, , 1996;
Kalvesta	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Shan et al, 2007;
Kalvi	Estonia	2*	7+9/14+15/13+16	5+10	b, c/h/f, d	Tohver et al, 2001, Tohner, 2007;
Kalyansona	India	2*	17+18/20	2+12	b, i/e, a	Brunori et al, 1989; Bhagwat and Bhatia, 1988;
Kamilaroi	Australia	null	20	-	c, e,	Anon, 1989; Vallega, 1988; Anon, 1993c;

Kamilaroi-d	Australia	null	20	2+12	c, e, a	Wrigley et al, 2005
Kanak-8872	India	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Kanata	Canada	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Kanchan	India	2*	7+9	2+12	b, c, a	Das et al, 2001;
Kangxiu-10	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
Kanking	U.S.A.	1	6+8/7+8	3+12	a, d/b, b	Graybosh, 1992;
Kanred	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Rabinovich et al, 2000a;
Kanto 107	Japan	null	7+9	2	c, c, k	Liu et al 2008
Kanto-56	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Kanzler	Germany	null	7+8	2+12	c, b, a	Kazman and Lein, 1996; Rogers et al, 1989;
Karabacak	Bulgaria	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Karabalykskaya 90	Kazakhstan	null	7*+9	2+12	c, c, d	Morgounov et al 2008
Karabalykskaya 89	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;

Karabalykskaya 92	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Karacabey-97	Turkey	2*	7+9	5+10	b, c, d	Sanal et al, 2005
Karacadag-98	Turkey	1	7+8	5+10	a, b, d	Sanal et al, 2005
Karagandinskaya-22	Kazakhstan	2*	7+9	2+12	b, c, a	Absattarova, 2005;
Karagandinskaya-70	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Karaj1	Iran	null	7+9/b	5+10	c, c/b, d	Bahraei et al, 2004;
Karaj3	Iran	2*	20/b	2+12	b, e/b, a	Bahraei et al, 2004;
Karamu	New Zealand	null	7+8	2+12	c, b, a	Griffin, 1994; Griffin et al, 2001;
Karaspan	Kazakhstan	2*	7*+8	5+10	b, u, d	Urazaliev,2003;
Karasu-90	Lebanon	2*	7+8	5+10	b, b, d	Sanal et al, 2005
Karat	Austria	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997; Anon, 1998;
Karat	Canada	null	7+9	5+10	c, c, d	Bushuk, 2006;
Kardinal-nosovskii	Ukraine	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;

Karee	South Africa	1	7+9	5+10	a, c, d	Cornish, 2005;
Karel	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
KARIEGA	CIMMYT-30TH IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Kariega	South Africa	2*	17+18	5+10	b, i, d	Cornish, 2005;
Karl	U.S.A.	1	7+8	5+10	a, b, d	Graybosh, 1992;
Karl 92	U.S.A.	1	7+8	5+10	a, b, d	Shan et al, 2007;
Karl92	China	1	7+8	5+10	a, b, d	He et al, 2005;
Karlgarin	Australia	1	7+9	5+10	a, c, d	Wrigley et al, 2005
Karlygash	Kazakhstan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Karmont	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Kartner Fruher	Austria	2*	7+8/7+9	5+10	b, b/c, d	Groger et al, 1997; Groger et al, 1997
Karum	Iraq	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Kasifbey-95	Turkey	2*	17+18	5+10	b, i, d	Sanal et al, 2005

Kaspar	Netherlands	null	7+9	2+12	c, c, a	Kolster et al, 1993;
Kata	Croatia	null	7+9	2+12	c, c, a	Jurkovic et al, 2000; Horvat et al, 2002;
Katepwa	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Bushuk, 1997; Dubuc and Boudreau, 1992;
Katepwa (BW 49)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Kathia-21	India	2*	20	-	b, e, -	Oak et al, 2004;
Kathia-25	India	2*	20	-	b, e, -	Oak et al, 2004;
Katia-1	Turkey	1	7	2+12	a, a, a	Sanal et al, 2005
Katunga	Australia	1	20	2+12	a, e, a	Anon, 1993c; Anon, 1998;
Katyil	Australia	1	20	5+10	a, e, d	Anon, 1998;
Katyusha	Ukraine	2*/null	7+8	2+12	b/c, b, a	Rabinovich et al, 2001;
KAUZ	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/ /TC*6/RL5406(RL6043)/3/KAUZ	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;

KAUZ*2/ /TC*6/RL5406(RL6043)/3/KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/ /TC*6/RL6081/3/KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2//DOVE/BUC/3/KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2//K134(60)/	CIMMYT-16TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
KAUZ*2//K134(60)/VEE	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2//K134(60)/VEE	CIMMYT-6TH SAWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
KAUZ*2//SAP/MON/3/KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2//TC*6/RL5406(RL6043)	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/4/CAR/ /KAL/BB/3/NAC/5/KAUZ	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ*2/4/CAR/ /KAL/BB/3/NAC/5/KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/BAU//KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/BOW//KAUZ	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ*2/CHEN//BCN	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

KAUZ*2/CHEN//BCN	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ*2/HAHN//KAUZ	CIMMYT-29TH IBWSN	2*	7+8/7+9	2+12	b, b/c, a	Payne and Pena, 2006;
KAUZ*2/HAHN//KAUZ	CIMMYT-4TH HTWYT	2*	7+8/7+9	2+12/5+10	b, b/c, a/d	Payne and Pena, 2006;
KAUZ*2/MNV//KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/MYNA//KAUZ	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ*2/MYNA//KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/OPATA//KAUZ	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/OPATA//KAUZ	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ*2/PGO//KAUZ	CIMMYT-14TH SAWSN	2*	17+18/7+8	2+12	b, i/b, a	Payne and Pena, 2006;
KAUZ*2/SPB//KAUZ	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ*2/SPB//KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/TRAP//KAUZ	CIMMYT-29TH IBWSN	1/2*	7+9	2+12	a/b, c, a	Payne and Pena, 2006;
KAUZ*2/TRAP//KAUZ	CIMMYT-29TH IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;

KAUZ*2/TRAP//KAUZ	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*2/TRT//KAUZ	CIMMYT-29TH IBWSN	2*	17+18/7+9	5+10	b, i/c, d	Payne and Pena, 2006;
KAUZ*2/YACO//KAUZ	CIMMYT-17TH ESWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
KAUZ*2/YACO//KAUZ	CIMMYT-29TH IBWSN	2*/null	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ*3/4/FG/ATO//HUI/3/ROK	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//ALTAR 84/AOS	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//ALTAR 84/AOS/3//KAUZ	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//KAUZ/LUCO-M	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//KAUZ/PVN	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ//PFAU/VEE#5	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//PFAU/VEE#5/3//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//PRL/VEE#6	CIMMYT-14TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
KAUZ//STAR/LUCO-M	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;

KAUZ//VEE#5/SARA	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//VEE/MYNA	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ//VORONA/CNO79/3/KAUZ	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ/4/R37/GHL121/ /KAL/BB/3/BUC/BUL	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/6/ATL66/H567	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/6/ATL66/H567.71/ /ATL66/5/PMN5/ /S948.A1/4*CNO6	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/AA//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/BAU	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/CMH77.308//BAU	CIMMYT-17TH ESWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
KAUZ/GEN	CIMMYT-17TH ESWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
KAUZ/GEN	CIMMYT-29TH IBWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
KAUZ/GEN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/GYS//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

KAUZ/HEVO	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/LUCO-M//PVN/STAR	CIMMYT-30TH IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
KAUZ/PFAU//KAUZ/3//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KAUZ/TRAP//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Kaveh	Iran	2*	b	2+12/5+10	b, b, a/d	Bahraei et al, 2004;
Kavir	Iran	2*/null	17+18	2***+12'	b, i, N	Bahraei et al, 2004;
Kavkaz	Russia	2*/null	7+8/7+9	5+10	b/c, b/c, d	Graybosh, 1992; Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2000a
Kazakhstanskaya-10	Kazakhstan	2*	7+8	5+10	b, b, d	Absattarova, 2005;
Kazakhstanskaya-15	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Kazakhstanskaya-17	Kazakhstan	2*	7+8/7+9	2+12/5+10	b, b/c, a/d	Absattarova, 2005;
Kazakhstanskaya-19	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Kazakhstanskaya-20	Kazakhstan	1	7+8	5+10	a, b, d	Absattarova, 2005;
Kazakhstanskaya-22	Kazakhstan	1	7+9	2+12	a, c, a	Absattarova, 2005;

Kazakhstanskaya-24	Kazakhstan	1	7+8/7+9	5+10	a, Glu-A1b/c, d	Absattarova, 2005;
Kazakhstanskaya-25	Kazakhstan	1	7+9	2+12/5+10	a, c, a/d	Absattarova, 2005;
Kazakhstanskaya-3	Kazakhstan	1	7+9	5+10	a, c, d	Absattarova, 2005;
Kazakhstanskaya-4	Kazakhstan	2*	7+8	5+10	b, b, d	Absattarova, 2005;
Kazakhstanskaya-rannespelaya	Kazakhstan	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Kazanskaya yubileynaya	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Kazanskaya-84	Russia	1	7+8/7+9	5+10	a, b/c, d	Ya, 1997;
KDH	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
KEA/BUC//FCT	CIMMYT-15TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
KEA/BUC//FCT	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Kefeng-2	China	1	7+9	2+12	a, c, a	He et al, 1992;
Kefeng-3	China	2*	7+8	2+12	b, b, a	He et al, 1992;
Kefeng-4	China	1	7+8	2+12	a, b, a	He et al, 1992;

Kehan-1	China	null	7+8	2+12	c, b, a	He et al, 1992;
Kehan-10	China	1	7+9	2+12	a, c, a	He et al, 1992;
Kehan-5	China	1	7+9	2	a, c, k	He et al, 1992;
Kehan-8	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Kehong-1	China	1	7+8	2+12/5+10	a, b, a	Wang et al, 1993;
Kelalac	Australia	2*	7+8/20	2+12/5+10	b, b/e, a/d	Anon, 1993c; Wrigley et al, 2005
Kena	Litvania	null	7+9	5+10	c, c, d	Ruzgas and Liutkevicius, 2000;.
Kennedy	Australia	1	17+18	5+10	a, i, d	Wrigley et al, 2005
Kenosha	U.S.A.	2*	7	5+10	b, a, d	Graybosh, 1992;
KENYA CHIRIKU	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Kenya-58	Kenya	2*	7+8	2+12	b, b, a	Graybosh, 1992;
Kenya-farmer	Kenya	2*	7+9	5+10	b, c, d	Graybosh, 1992; Anon, 1998;
Kenya-leopard	Kenya	1	6+8	5+10	a, d, d	Cornish, 2005;

Kenya-nyati	Kenya	2*	7+8	5+10	b, b, d	Cornish, 2005;
Kenyon	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Bushuk, 1997; Anon, 1998;
Kenzhegali	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
KETUPA	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
KETUPA	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Keumkangmil	Korea	null	7+8	5+10	c, b, d	Hyun et al, 2001;
Kewell	Australia	1/2*	20/17+18	5+10/2+12	a/b, e/i, d/a	Rabinovich et al, 2001;
Kewell-a	Australia	2*	20	2+12	b, e, a	Lawrence, 1986
Kewell-b	Australia	1	20	2+12	a, e, a	Lawrence, 1986
Kewell-c	Australia	1	20	5+10	a, e, d	Lawrence, 1986
Kewell-d	Australia	2*	20	5+10	b, e, d	Lawrence, 1986
Kezao-1	China	1	7+8	2+12	a, b, a	He et al, 1992;
Kg-1180	Yugoslavia	null	7+8	5+10	c, b, d	Knezevic et al, 1993;

Kg-18	Yugoslavia	null	7+8	5+10	c, b, d	Knezevic et al, 1993;
Kg-20-79	Yugoslavia	1	7+9	2+12	a, c, a	Knezevic et al, 1993;
Kg-298-c	Yugoslavia	1	7+9	5+10	a, c, d	Knezevic et al, 1993;
Kg-56	Yugoslavia	2*	14+15	5+10	b, h, d	Vapa, 1989; Dencic, 2001;
Kg-58	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Kg-64-iii	Yugoslavia	1	7+9	2+12	a, c, a	Knezevic et al, 1993;
Kg-75	Yugoslavia	null	7	2+12/5+10	c, a, a/d	Knezevic et al, 1993; Knezevic et al, 1993
Kg-78	Yugoslavia	2*	7+9/14+15	5+10	b, c/h, d	Vapa, 1989;
Kg-gruzanka	Yugoslavia	1	7+8	2+12/5+10	a, b, a/d	Vapa, 1989; Knezevic et al, 1993; Knezevic et al, 1993
Kg-iii-27	Yugoslavia	null	7	2+12	c, a, a	Knezevic et al, 1993;
Kg-lepenica	Yugoslavia	1/2*	7+8	5+10/2+12	a/b, b, d/a	Vapa, 1989; Vapa and Sanic, 1988; Knezevic et al, 1993; Knezevic et al, 1993
Kg-morava	Yugoslavia	1/null	20/7	2+12/5+10	a/c, e/a, a/d	Vapa, 1989; Knezevic et al, 1993; Knezevic et al, 1993
Kg-orasanka	Yugoslavia	2*	14+15	2+12/5+10	b, h, a/d	Vapa, 1989; Knezevic et al, 1993; Knezevic et al, 1993

Kg-v-3-85	Yugoslavia	2*	7+9	5+10/2+12	b, c, d/a	Knezevic et al, 1993; Wrigley et al, 2005
Khabarovchanka	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Khapli - 53	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
Khapli 2-9-8	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
Khapli pink	India	1	14 + 15	-	a ,h, -	Oak et al, 2004;
Khapli-1	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
Khapli-2	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
Khapli-3	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
Khapli-4	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
Kharkof	U.S.A.	2*/1	7+9	5+10	b/a, c, d	Graybosh, 1992; Anon, 1998; Vallega, 1988;
Kharkovskaya-10	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Kharkovskaya-11	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Kharkovskaya-12	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;

Kharkovskaya-1239	Ukraine	1	7+8/7+9	2+12/5+10	a, b/c, a/d	Rabinovich et al, 2000a; Gregova et al, 1999;
Kharkovskaya-14	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Kharkovskaya-16	Ukraine	2*	7+9/6+8	5+10	b, c/d, d	Rabinovich et al, 2001;
Kharkovskaya-18	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Kharkovskaya-2	Ukraine	2*	7+9/6+8	5+10	b, c/d, d	Rabinovich et al, 2001;
Kharkovskaya-22	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Kharkovskaya-24	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Kharkovskaya-26	Ukraine	null	7+9	5+10	c, c, d	Rabinovich et al, 2001;
Kharkovskaya-5	Ukraine	1	7+8	-	a, b,	Anon, 1989; Liu and Rathjen, 1994;
Kharkovskaya-6	Ukraine	2*	7+9/6+8	5+10	b, c/d, d	Rabinovich et al, 2001;
Kharkovskaya-8	Ukraine	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;
Kharkovskaya-90	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Kharkovskaya-917	Ukraine	1	7+8/7+9	2+12/5+10	a, b/c, a/d	Gregova et al, 1999;

Kharkovskaya-92	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997;
Kharkovskaya-93	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Khayber-79	Pakistan	2*	17+18	2+12	b, i, a	Tahir et al, 1995;
Khayber-87	Pakistan	2*	7+9	5+10	b, c, d	Tahir et al, 1995;
Khazarka	Russia	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2000a; Knezevic et al, 1993
Khersonskaya-84	Ukraine	1	7+9	5+10	a, c, d	Morgunov et al, 1990;
Khersonskaya-86	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Khersonskaya-ostistaya	Ukraine	2*	7+9/7+8	5+10	b, c/b, d	Ya, 1997; Glu-A1b; Glu-D1d; Sobko and Sozinov, 1999;
Khomrok	Syria	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Khulugo	Georgia	1/null	7/7+9/7+8	3+12/5+10/2+12	a/c, a/c/b, b/d/a	Gregova et al, 2004;
Khvylya	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Rabinovich et al, 2001;
Kiata	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005; Anon, 1993c;
Kid	Italy	null	20	-	c, e,	Vallega and Waines, 1987;

Kidur	France	null	6+8	-	c, d,	Branlard and Le Blank, 1985;
Kievskaya-7	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Kievskaya-893	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Kievskaya-ostistaya	Ukraine	null/2*	7+8	5+10	c/b, b, d	Ya, 1997; Sobko and Sozinov, 1999;
Kimmo	Finland	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b;
Kimon	Netherlands	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Kinaci-97	Turkey	1	7+8	5+10	a, b, d	Knezevic et al, 1993
Kinelskaya-30	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Kinelskaya-4	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Kinelskaya-59	Russia	1	7+9	2+12	a, c, a	Rabinovich et al, 2001; Bespalov, 1994;
King	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
Kinki-35	Japan	1	7+8	2.2+12	a, b, f	Nakamura, 2000a;
Kinsman	U.K.	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;

Kiowa	U.S.A.	1	7+8/7+9	2+12	a, b/c, a	Graybosh, 1992; Knezevic et al, 1993
Kirac-66	Turkey	2*	7+8	5+10	b, b, d	Knezevic et al, 1993
Kirgiz-95	Turkey	1	7+8	2+12	a, b, a	Knezevic et al, 1993
Kiriya	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Kirkpinar-79	Turkey	2*	7	5+10	b, a, d	Sanal et al, 2005
Kirmus-yaslik	Turkey	null	20	-	c, e,	Vallega, 1988; Anon, 1989;
Kirwin	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;
Kitakamikomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Kitakanto-5	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Kitami-23	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Kitami-42	Japan	null	20	2+12	c, e, a	Nakamura, 2000a;
Kitanokaori	Japan	1	7+9	5+10	c, c, d	Liu et al 2008
Kitchener	Canada	1	7+8	5+10	a, b, d	Anon, 1998; Rabinovich et al, 2000a;

Kite	Australia	2*	17+18	2+12	b, i, a	Anon, 1993c; Anon, 1998;
KITE/GLEN	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Kiuru	Finland	1	7+8	5+10	a, b, d	Rabinovich et al, 2000b;
Kiyanka	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997;
Klara	Croatia	1	7+8	2+12	a, b, a	Jurkovic et al, 2000; Horvat et al, 2002;
Klaros	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
Klasic	U.S.A.	1	17+18	5+10	a, i, d	Rabinovich et al, 2000b;
KLAT/SOREN//PSN/3/BOW	CIMMYT-29TH IBWSN	2*	7+8/7+9	5+10	b, b/c, d	Payne and Pena, 2006;
Klein Dragon	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Klein 32	Argentina	1	OE7+8*/13+16/7*+8	2+12	a, al/f/u, a	Feingold and Hopp, 1991; Gianibelli et al, 2002; Dubcovsky et al, 2004
Klein Atalaya	Argentina	1	7*+9/7+9	5+10	a, v/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Klein Atlas	Argentina	1	OE7+8*	2+12	a, al, a	Gianibelli et al, 2002;
Klein Brujo	Argentina	1	7+9	5+10	a, c, d	Dubcovsky et al, 2004

Klein Cacique	Argentina	2*/1	7+9	5+10	b/a, c, d	Gianibelli et al, 2002; Dubcovsky et al, 2003
Klein Capricornio	Argentina	2*	OE7+8	5+10	c, al, d	Liu et al 2008
Klein Cartucho	Argentina	1	13+16	5+10	a, f, d	Gianibelli et al, 2002;
Klein Centauro	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Klein Chaja	Argentina	2*	17+18	5+10	c, i, d	Liu et al 2008
Klein Chamaco	Argentina	1	7+8/17+18	5+10	a, b/i, d	Gianibelli et al, 2002;
Klein Cobre	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Klein Criollo	Argentina	2*	7+8	5+10	b, b, d	Gianibelli et al, 2002;
Klein Dorado	Argentina	2*	7+9	5+10	b, c, d	Gianibelli et al, 2002;
Klein Dragon	Argentina	2*	7+9	5+10	b, c, d	Gianibelli et al, 2002;
Klein Estrella	Argentina	2*	7+8	5+10	b, b, d	Dubcovsky et al, 2004
Klein Flecha	Argentina	2*	OE7+8	5+10	c, al, d	Liu et al 2008
Klein Fortin	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002;

Klein Granador	Argentina	1	7+8	5+10	a, b, d	Gianibelli et al, 2002;
Klein Impacto	Argentina	2*	7+8/7*+8	5+10	b, b/u, d	Gianibelli et al, 2002;
Klein Jabal 1	Argentina	2*	OE7+8	5+10	c, al, d	Liu et al 2008
Klein Martillo	Argentina	2*	7+9	5+10	c, c, d	Liu et al 2008
Klein Orion	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Klein Petiso	Argentina	1	7+8/OE7+8*	5+10	a, b/al, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Klein Proteo	Argentina	1	7+9	5+10	c, c, d	Liu et al 2008
Klein Rendidor	Argentina	1	OE7+8*	5+10/2+12	a, al, d/a	Gianibelli et al, 2002;
Klein Salado	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Klein Sendero	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Klein Toledo	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
KLL-1-4	India	null	7+9	2+12	c, d, a	Ram, 2003;
Kloka	Germany	null	7	5+10	c, a, d	Cornish, 2005;

Knoppies-caledon	South Africa	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993;
Knox	U.S.A.	1/2*	7+9/7+8	2+12	a/b, c/b, a	Graybosh, 1992;
Knox-62	U.S.A.	1	6+8	2+12	a, d, a	Graybosh, 1992;
Knyazhna	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2000a;
Kobold	Germany	null	6+8	5+10	c, d, d	Rogers et al, 1989;
Kobushikomugi	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Koda	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005
Kofa	U.S.A.	null	6+8	null	c, d, i	Anon, 1998;
Kohika	New Zealand	2*	7+8	2+12	b, b, a	Griffin et al, 2001;
Kohinoor-83	Pakistan	1	7+9	5+10	a, c, d	Tahir et al, 1995;
Kokeshikomugi	Japan	1	7+9	4+12	a, c, c	Nakamura, 2000a;
Kollektivnaya	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Kollektivnaya-1	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;

Kollektivnaya-3	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Kolomak-3	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Kolomak-5	Ukraine	2*/1	7+8/7+9	5+10	b/a, b/c, d	Ya, 1997; Sobko and Sozinov, 1999;
Kolos	Russia	1/2*	7+8	5+10	a/b, b, d	Ya, 1997; Rabinovich et al, 2000a;
Kolos-dona	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Kolubara	Yugoslavia	null/2*	7+9	5+10	c/b, c, d	Vapa, 1989; Borojevic, 1990;
Kolumbus	Germany	null	7+9	2+12	c, c, a	Groger et al, 2005
Kometa	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Komfort	U.K.	1	17+18	2+12	a, i, a	Groger et al, 2005
Kommissar	Austria	null	7+9	2+12	c, c, a	Groger et al, 2005
Kompolti-169	Hungary	2*	22	5+10	b, k, d	Bedo and Lang, 2005
Komsomolskaya 29	Kazakhstan	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;

Komsomolskaya 56	Kazakhstan	1	7+9	5+10	a, c, d	Ya, 1997; Rabinovich et al, 2004;
Komsomolskaya 75	Kazakhstan	1	7+9	5+10	a, c, d	Ya, 1997; Rabinovich et al, 2004;
Komsomolskaya 90	Kazakhstan	2*	7+8/17+18	2+12	b, b/i, a	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;
Komsomolskaya 103	Kazakhstan	1	7*+9	5+10	a, c, d	Morgounov et al 2008
Kondut	Australia	2*	7	5+10	b, a, d	Cornish, 2005;
Konia	Turkey	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993;
Konini	New Zealand	d	7	2+12	d, a, a	Griffin, 1994; Griffin et al, 2001;
Konosu-26	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Konsul	Sweden	2*/null	6+8	2+12	b/c, d, a	Kazman and Lein, 1996;
Kontrast	Germany	null	17+18	5+10	c, i, d	Kazman and Lein, 1996; Groger et al, 1997;
Kooperatorka	Ukraine	null/1	6/7+9	2+12/5+10	c/a, an/c, a/d	Gregova et al, 1999;
Kopara	New Zealand	1	6+8	2+12	a, d, a	Griffin, 1994; Griffin et al, 2001;
Korall-odesskii	Ukraine	null	7+8	-	c, b,	Vallega, 1988;

Korana	Croatia	1	7	2+12	a, a, a	Vapa, 1989;
Kormoran	Germany	null	7+9	5+10	c, c, d	Kolster et al, 1993; Anon, 1998; Rogers et al, 1989;
Korona	Croatia	2*/null	6+8	5+10/2+12	b/c, d, d/a	Vapa, 1989; Bedo and Lang, 2005
Korweta	Poland	null	7+8	5+10	c, b, d	Masauskiene et al, 2002;
Kosack	Sweden	null	6+8/14+15	2+12	c, d/h, a	Kuktaite" et al, 2000;
Kosava	Yugoslavia	null	7+9/7+8	5+10	c, c/b, d	Vapa, 1989; Dencic and Borojevich, 2001; Galova et al, 2001
Kosmajka	Yugoslavia	1	7	2+12	a, a, a	Vapa, 1989; Knezevic et al, 1993; Vapa and Sanic, 1988;
Kosmid	Russia	null	7+8/7+9	2+12	c, b/c, a	Rabinovich et al, 2001;
Kostomlatska-sametka	Czech Republic	null/1	7+9/7+8	2+12	c/a, c/b, a	Gregova et al, 2004;
Kosutka	Slovak Republic	null	7+9	5+10	c, c, d	Gregova et al, 1997; Sasek et al, 1997;
Kosutska	Slovak Republic	null	7+9	5+10	c, c, d	Gregova et al, 1997;
Kota	Canada	2*	7+8	2+12	b, b, a	Bushuk, 2006;
Kota	U.S.A.	2*	7+8	2+12	b, b, a	Anon, 1998;

Kotare	New Zealand	d	7	2+12	d, a, a	Griffin, 1994; Griffin et al, 2001;
Kotte	Sweden	null/1/2*	6+8/7+9/20	2+12/5+10	c/a/b, d/c/e, a/d	Gregova et al, 2004;
Kotuku	New Zealand	1/2*	7+9/7+8	5+10	a/b, c/b, d	Griffin, 1994; Griffin et al, 2001;
Kozara	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Kozhe-bidai	Kazakhstan	null	7+9	2+12	c, c, a	Rayfuse and Jones, 1993;
Kragujevacka-101-7	Yugoslavia	null	6+8/13+16	2+12	c, d/f, a	Knezevic et al, 1993;
Kragujevacka-1180	Yugoslavia	null	7+8	5+10	c, b, d	Knezevic et al, 1993;
Kragujevcanka-56	Yugoslavia	2*	14+15	5+10	b, h, d	Vapa, 1989; Dencic, 2001;
Kragujevcanka-58	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Kragujevcanka-75	Yugoslavia	null	7	2+12/5+10	c, a, a/d	Knezevic et al, 1993; Rabinovich et al, 2000a
Kragujevcanka-78	Yugoslavia	2*	7+9/14+15	5+10	b, c/h, d	Vapa, 1989;
Krajinka	Yugoslavia	null	7+8	2+12/5+10	c, b, a/d	Vapa, 1989;
Kraka	Denmark	null	6+8	2+12	c, d, a	Kolster et al, 1993; Kazman and Lein, 1996; Rogers et al, 1989;

Kraljevica	Yugoslavia	2*	20	5+10	b, e, d	Vapa, 1989;
Krasnaya-zvezda	Kazakhstan	null	7+8/7*+8	2+12/2+10	c, b/u, a/e	Morgunov et al, 1990; Urazaliev,2003;
Krasnodarskaya-39	Russia	1/null	7+9	5+10/2+12	a/c, c, d/a	Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2000a;
Krasnodarskaya-46	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000a;
Krasnodarskaya-57	Russia	2*	7+8/7+9	5+10	b, b/c, d	Ya, 1997; Rabinovich et al, 2000a;
Krasnodarskaya-6	Russia	null/2*	7+9	5+10	c/b, c, d	Ya, 1997; Rabinovich et al, 2000a;
Krasnodarskaya-70	Russia	1/2*	7+9	2+12/5+10	a/b, c, a/d	Rabinovich et al, 2000a;
Krasnodarskaya-90	Russia	2*	7+8/7+9	5+10	b, b/c, d	Ya, 1997; Rabinovich et al, 2000a;
Krasnodarskii-karlik-1	Russia	1	7+9/7+8	2+12/5+10	a, c/b, a/d	Ya, 1997; Rabinovich et al, 2000a;
Krasnokutka-9	Russia	2*	7+9/17+18	2+12	b, c/i, a	Rabinovich et al, 2001;
Krasnovodopadskaya 210	Kazakhstan	2*	7*+8	5+10/5+12	b, u, d/h	Absattarova, 2005; Urazaliev,2003;
Krasnovodopadskaya 25	Kazakhstan	2*	7*+8	5+10	b, u, d	Urazaliev,2003;
Krasunya-odesskaya	Ukraine	2*	7+8	5+10	b, b, d	Ya, 1997; Sobko and Sozinov, 1999;

Krestyanka	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;
Krichauff	Australia	1	7+9	5+10	a, c, d	Wrigley et al, 2005
Krinitza	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000a;
Kris	Netherlands	1	7+9	2+12	a, c, a	Masauskiene et al, 2002;
Kristall	Germany	null	6+8	5+10	c, d, d	Rogers et al, 1989;
Kristall	Russia	1	7+8	-	a, b,	Anon, 1989; Vallega, 1988;
Krizhinka	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
KRL.1.4	CIMMYT-17TH ESWYT	2*	17+18/7+9	2+12	b, i/c, a	Payne and Pena, 2006;
Kronjuwel	Germany	null	6+8	2+12	c, d, a	Rogers et al, 1989;
Kroshka	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2000a;
Krusarka	Croatia	null	22	5+10	c, k, d	Vapa, 1989;
Krymka	Ukraine	2*/1	7+9/20	5+10/2+12	b/a, c/e, d/a	Gregova et al, 1999;
KS00F5-14-7	U.S.A.	1	7+8	5+10	a, b, d	Shan et al, 2007;

KS00F5-20-3	U.S.A.	1	7+8	2+12	a, b, a	Shan et al, 2007;
KS03HW158	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
KS-04-WGRC-49	U.S.A.	null	-	-	, ,	Freibe et al, 2005;
KS-8010-72-8	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992
KS-92709	U.S.A.	1	7+9	2+12	a, c, a	Pike and MacRitchie, 2004;
KS-92946	U.S.A.	2*	7+8	5+10	b, b, d	Pike and MacRitchie, 2004;
KS-96-hW-10	U.S.A.	1	7+9	5+10	a, c, d	Pike and MacRitchie, 2004;
KS-96-hW-94	U.S.A.	2*	7+8	5+10	b, b, d	Pike and MacRitchie, 2004;
KS-97180-B	U.S.A.	1	7+9	5+10	a, c, d	Pike and MacRitchie, 2004;
KS-97-hW-4	U.S.A.	1	7+9	5+10	a, c, d	Pike and MacRitchie, 2004;
Ksiaze-andrzej	Poland	1/null	6+8/7+8	5+10/2+12	a/c, d/b, d/a	Gregova et al, 1999;
KT/BAGE/ /FN/GU/3/BZA/4/TRM/5/ALDAN/6/SERI/7/B AU/8/ KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/VE E#10/	CIMMYT-14TH SAWSN	1/2*	7+9	5+10	a/b, c, d	Payne and Pena, 2006;
	CIMMYT-14TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;

KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/VE E#10/ KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/VE E#10/ KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/VE E#10/8/OPATA KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/VE E#10/8/OPATA KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/YR /8/OP KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/YR /8/OPATA KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/YR /8/OPATA KT/BAGE/ /FN/U/3/BZA/4/TRM/5/ALDAN/6/SERI/7/YR /8/OPATA	CIMMYT-14TH SAWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
	CIMMYT-29TH IBWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
	CIMMYT-29TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
	CIMMYT-6TH SAWYT	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
	CIMMYT-29TH IBWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
	CIMMYT-29TH IBWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
	CIMMYT-29TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
KT/BAGE//FN/U/3/B	CIMMYT-16TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
KT/BAGE//FN/U/3/B	CIMMYT-16TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Kukri	Australia	1	OE7+8*	5+10	a, al, d	Wrigley et al, 2005
Kulin	Australia	2*	13+16/17+18	2+12/5+10	b, f/i, a/d	Anon, 1993c; Wrigley et al, 2005
Kulm	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;

Kulundinka	Russia	1	7+8	5+10	a, b, d	Ya, 1997;
Kumpa-inia	Chile	null	6+8	5+10	c, d, d	Jobet and Hewstone, 2003
Kundan	India	2*	17+18	5+10	b, i, d	Das et al, 2001;
Kupa	Croatia	null	20	2+12	c, e, a	Vapa, 1989;
Kupava	Russia	1	7+9	5+10/2+12	a, c, d/a	Rabinovich et al, 2000a;
Kurganskaya 5	Russia	2*	17+18	2+12	b, i, d	Morgounov et al 2008
Kurskaya-2038	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Kurskaya-263	Russia	1/2*	7+9/7+8	5+10	a/b, c/b, d	Rabinovich et al, 2001;
Kutluk-94	Turkey	null	6+8	2+12	c, d, a	Sanal et al, 2005
Kutuluskaya	Russia	1	7+9	2+12	a, c, a	Rabinovich et al, 2001;
Kuyalnik	Ukraine	2*/null	7+8	5+10	b/c, b, d	Rabinovich et al, 2001;
KVZ/K4500//KAUZ	CIMMYT-8TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Kyle	Canada	null	7+8/6+8	null	c, b/d, i	Anon, 1989; Vallega, 1988; Ng and Pogna, 1989; Anon, 1998;

Kyyal	Kyrgyzstan	2*	7+9	2+10	b, c, e	Urazaliev,2003;
Kyzyl-dan	Kyrgyzstan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Kzyl-shark	Uzbekistan	null	7+8	2+12	c, b, a	Morgunov et al, 1990;
L 13953	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
L 31	Algeria	1	6+8	-	a, d, -	Carillo et al, 2005;
L 34	Algeria	1	32+33/6+8	-	a, aq/d, -	Carillo et al, 2005;
L 45□	Algeria	null/1	20/6+8	-	c/a, e/d, -	Carillo et al, 2005;
L 9230	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
L-196/94-6	Russia	1	7*+9	5+10	a, c, d	Morgounov et al 2008
L-210/99-10	Russia	2*	7*+8	5+10	b, u, a	Morgounov et al 2008
L-62/2-98h-1731	Russia	1	7*+9	5+10	a, c, a	Morgounov et al 2008
L-503	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001; Bespalov, 1994;
L-505	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;

Laari	Finland	2*	7+8	2+12	b, b, a	Tohver et al, 2001, Tohner, 2007;
Labinka	Russia	1/2*	7+9	5+10	a/b, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Labrador-Inta	Argentina	1	OE7+8*	2+12	a, al, a	Gianibelli et al, 2002;
Lacos No.1	Argentina	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.10	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.100	Brazil	2*	7+8	2+12/5+10	b, b, a/d	Pfloeger et al, 2003;
Lacos No.101	Brazil	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.102	Brazil	1	17+18	2+12	a, i, a	Pfloeger et al, 2003;
Lacos No.103	Brazil	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.104	Brazil	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.105	Brazil	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.106	Brazil	2*	6+8	2+12	b, d, a	Pfloeger et al, 2003;
Lacos No.107	Brazil	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;

Lacos No.108	Brazil	2*	6+8/ 13+16	2+12/5+10	b, d/f, a/d	Pfloeger et al, 2003;
Lacos No.109	Brazil	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.111	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.110	Brazil	1	6+8	2+12	a, d, a	Pfloeger et al, 2003;
Lacos No.111	Brazil	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.112	Brazil	1/ 2*	6+8	2+12/5+10	a/b, d, a/d	Pfloeger et al, 2003;
Lacos No.113	Brazil	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.114	Chile	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.115	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.116	Chile	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.117	Chile	1	17+18	2+12	a, i, a	Pfloeger et al, 2003;
Lacos No.118	Chile	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.119	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;

Lacos No.12	Argentina	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.120	Chile	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.121	Chile	1/2*	17+18	5+10	a/b, i, d	Pfloeger et al, 2003;
Lacos No.122	Chile	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.123	Chile	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.124	Chile	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.125	Chile	1	17+18	2+12	a, i, a	Pfloeger et al, 2003;
Lacos No.126	Chile	1	17+18	2+12	a, i, a	Pfloeger et al, 2003;
Lacos No.127	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.128	Chile	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.129	Chile	1/2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.13	Argentina	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.130	Chile	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;

Lacos No.131	Chile	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.132	Chile	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.133	Chile	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.134	Chile	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.135	Chile	2*	13+16/ 7+8/7+9	2+12/5+10	b, f/b/c, a/d	Pfloeger et al, 2003;
Lacos No.136	Chile	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.137	Chile	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.138	Chile	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.139	Chile	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.14	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.140	Chile	1/2*	7+8/17+18	5+10	a/b, b/i, d	Pfloeger et al, 2003;
Lacos No.147	Chile	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.148	Chile	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;

Lacos No.149	Chile	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.15	Argentina	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.150	Chile	1	13+16	5+10	a, f, d	Pfloeger et al, 2003;
Lacos No.151	Chile	1/ 2*	13+16/ 17+18	5+10	a/b, f/i, d	Pfloeger et al, 2003;
Lacos No.152	Chile	1/ 2*	13+16	5+10	a/b, f, d	Pfloeger et al, 2003;
Lacos No.153	Chile	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.154	Chile	2*	13+16	5+10	b, f, d	Pfloeger et al, 2003;
Lacos No.155	Chile	2*	7+8	2+12	b, b, a	Pfloeger et al, 2003;
Lacos No.156	Chile	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.157	Chile	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.159	Chile	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.16	Argentina	null/ 2*	7+8/17+18	5+10	c/b, b/i, d	Pfloeger et al, 2003;
Lacos No.160	Chile	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;

Lacos No.161	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.162	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.163	Chile	null	17+18	2+12	c, i, a	Pfloeger et al, 2003;
Lacos No.164	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.165	Chile	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.166	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.167	Chile	null	7+9	5+10	c, c, d	Pfloeger et al, 2003;
Lacos No.168	Chile	null	7+9	5+10	c, c, d	Pfloeger et al, 2003;
Lacos No.169	Chile	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.17	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.170	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.171	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.172	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;

Lacos No.173	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.174	Chile	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.175	Paraguay	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.176	Paraguay	1	17+18	2+12	a, i, a	Pfloeger et al, 2003;
Lacos No.177	Paraguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.178	Paraguay	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.179	Paraguay	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.180	Paraguay	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.182	Paraguay	1/ 2*	7+8/13+16	2+12	a/b, b/f, a	Pfloeger et al, 2003;
Lacos No.183	Paraguay	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.184	Paraguay	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.185	Paraguay	2*	13+16	5+10	b, f, d	Pfloeger et al, 2003;
Lacos No.186	Paraguay	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;

Lacos No.187	Paraguay	2*	7+9/17+18	2+12/5+10	b, c/i, a/d	Pfloeger et al, 2003;
Lacos No.188	Paraguay	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.189	Paraguay	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.19	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.190	Paraguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.191	Paraguay	2*	7+9	2+12/5+10	b, c, a/d	Pfloeger et al, 2003;
Lacos No.192	Paraguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.193	Paraguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.194	Paraguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.195	Paraguay	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.196	Paraguay	null	7+9	2+12	c, c, a	Pfloeger et al, 2003;
Lacos No.197	Paraguay	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.198	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;

Lacos No.199	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.2	Argentina	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.20	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.200	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.201	Paraguay	null	7+9	5+10	c, c, d	Pfloeger et al, 2003;
Lacos No.202	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.203	Paraguay	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.204	Paraguay	null/ 2*	7+8/17+18	5+10	c/b, b/i, d	Pfloeger et al, 2003;
Lacos No.205	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.206	Paraguay	2*	20	2+12	b, e, a	Pfloeger et al, 2003;
Lacos No.207	Paraguay	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.208	Paraguay	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.209	Paraguay	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;

Lacos No.21	Argentina	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.210	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.211	Paraguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.212	Paraguay	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.213	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.214	Paraguay	null	20	2+12	c, e, a	Pfloeger et al, 2003;
Lacos No.215	Bolivia	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.216	Bolivia	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.217	Bolivia	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.218	Bolivia	1/ 2*	7+9/ 13+16	5+10	a/b, c/as, d	Pfloeger et al, 2003;
Lacos No.219	Bolivia	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.22	Argentina	2*	17+18	2+12/5+10	b, i, a/d	Pfloeger et al, 2003;
Lacos No.220	Bolivia	null	17+18	5+10	c, i, d	Pfloeger et al, 2003;

Lacos No.221	Bolivia	2*	7+8	2+12	b, b, a	Pfloeger et al, 2003;
Lacos No.222	Bolivia	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.223	Bolivia	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.224	Bolivia	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.225	Bolivia	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.226	Bolivia	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.227	Bolivia	1/ 2*	7+9/17+18	5+10	a/b, c/i, d	Pfloeger et al, 2003;
Lacos No.228	Bolivia	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.23	Argentina	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.24	Argentina	1	7+9/17+18	5+10	a, c/i, d	Pfloeger et al, 2003;
Lacos No.240	Bolivia	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.241	Bolivia	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.242	Bolivia	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;

Lacos No.243	Bolivia	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.244	Bolivia	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.245	Bolivia	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.246	Bolivia	1	7+9/ 13+16	2+12/5+10	a, c/f, a/d	Pfloeger et al, 2003;
Lacos No.247	Bolivia	1/ 2*	7+9	2+12	a/b, c, a	Pfloeger et al, 2003;
Lacos No.248	Bolivia	2*	7+9/17+18	5+10	b, c/i, d	Pfloeger et al, 2003;
Lacos No.249	Bolivia	null	17+18	5+10	c, i, d	Pfloeger et al, 2003;
Lacos No.25	Argentina	1	13+16	2+12/5+10	a, f, a/d	Pfloeger et al, 2003;
Lacos No.250	Bolivia	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.251	Bolivia	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.252	Bolivia	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.253	Bolivia	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.254	Bolivia	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;

Lacos No.255	Uruguay	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.256	Uruguay	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.257	Uruguay	null	17+18	5+10	c, i, d	Pfloeger et al, 2003;
Lacos No.258	Uruguay	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.259	Uruguay	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.26	Argentina	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.260	Uruguay	2*	7+9/17+18	5+10	b, c/i, d	Pfloeger et al, 2003;
Lacos No.261	Uruguay	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.262	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.263	Uruguay	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.264	Uruguay	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.265	Uruguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.266	Uruguay	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;

Lacos No.267	Uruguay	2*	7+8	2+12	b, b, a	Pfloeger et al, 2003;
Lacos No.268	Uruguay	1/ 2*	7+9/17+18	5+10	a/b, c/i, d	Pfloeger et al, 2003;
Lacos No.269	Uruguay	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.27	Argentina	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.270	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.271	Uruguay	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.272	Uruguay	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.273	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.274	Uruguay	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.275	Uruguay	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.276	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.277	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.278	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;

Lacos No.279	Uruguay	null	7+8	5+10	c, b, d	Pfloeger et al, 2003;
Lacos No.28	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.280	Uruguay	null	7+8	5+10	c, b, d	Pfloeger et al, 2003;
Lacos No.281	Argentina	1/ 2*	17+18	5+10	a/b, i, d	Pfloeger et al, 2003;
Lacos No.282	Argentina	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.283	Uruguay	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.284	Brazil	null	17+18	2+12	c, i, a	Pfloeger et al, 2003;
Lacos No.285	Brazil	2*	13+16	2.2+12	b, f, f	Pfloeger et al, 2003;
Lacos No.286	Brazil	2*	7+8/13+16	2+12	b, b/f, a	Pfloeger et al, 2003;
Lacos No.287	Chile	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.288	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.289	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.29	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;

Lacos No.290	Paraguay	2*	7+8	2+12	b, b, a	Pfloeger et al, 2003;
Lacos No.291	Paraguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.292	Paraguay	1	7+8	2+12	a, b, a	Pfloeger et al, 2003;
Lacos No.293	Paraguay	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.294	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.295	Uruguay	1/ 2*	7+9	5+10	a/b, c, d	Pfloeger et al, 2003;
Lacos No.296	Bolivia	2*	13+16	2+12	b, f, a	Pfloeger et al, 2003;
Lacos No.297	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.298	Uruguay	1	13+16	5+10	a, f, d	Pfloeger et al, 2003;
Lacos No.299	Uruguay	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.3	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.30	Argentina	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.300	Uruguay	null	7+8	5+10	c, b, d	Pfloeger et al, 2003;

Lacos No.31	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.32	Argentina	1/ 2*	7+8/ 7+9	2+12/5+10	a/b, b/c, a/d	Pfloeger et al, 2003;
Lacos No.33	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.34	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.35	Argentina	1	7+9/17+18	5+10	a, c/i, d	Pfloeger et al, 2003;
Lacos No.36	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.37	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.38	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.39	Argentina	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.4	Argentina	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.40	Argentina	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.41	Argentina	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.42	Argentina	null/ 2*	7+9/17+18	5+10	c/b, c/i, d	Pfloeger et al, 2003;

Lacos No.43	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.44	Argentina	2*	13+16	5+10	b, f, d	Pfloeger et al, 2003;
Lacos No.45	Argentina	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.46	Argentina	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.47	Argentina	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.48	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.49	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.5	Argentina	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.50	Argentina	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.51	Argentina	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.52	Argentina	2*	7+8	2+12	b, b, a	Pfloeger et al, 2003;
Lacos No.53	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.54	Brazil	null/ 2*	6+8/ 7+8	5+10	c/b, d/b, d	Pfloeger et al, 2003;

Lacos No.55	Brazil	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.56	Brazil	null/ 2*	7+9/ 13	5+10	c/b, c/f, d	Pfloeger et al, 2003;
Lacos No.57	Brazil	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.58	Brazil	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.59	Brazil	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.6	Argentina	1	13+16	5+10	a, f, d	Pfloeger et al, 2003;
Lacos No.60	Brazil	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.61	Brazil	2*	7+8	2+12	b, b, a	Pfloeger et al, 2003;
Lacos No.62	Brazil	1/ 2*	7+8	5+10	a/b, b, d	Pfloeger et al, 2003;
Lacos No.63	Brazil	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.64	Brazil	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.65	Brazil	1	6+8/ 7+8	2+12/5+10	a, d/b, a/d	Pfloeger et al, 2003;
Lacos No.66	Brazil	1	13+16	5+10	a, f, d	Pfloeger et al, 2003;

Lacos No.67	Brazil	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.68	Brazil	1/ 2*	13+16/ 17+18	5+10	a/b, f/i, d	Pfloeger et al, 2003;
Lacos No.69	Brazil	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.7	Argentina	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.70	Brazil	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.71	Brazil	1/ 2*	17+18	5+10	a/b, i, d	Pfloeger et al, 2003;
Lacos No.72	Brazil	1/ 2*	13+16	5+10	a/b, f, d	Pfloeger et al, 2003;
Lacos No.73	Brazil	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.74	Brazil	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;
Lacos No.75	Brazil	1	7+9	2+12	a, c, a	Pfloeger et al, 2003;
Lacos No.76	Brazil	1/ 2*	7+8/ 7+9	2+12/5+10	a/b, b/c, a/d	Pfloeger et al, 2003;
Lacos No.77	Brazil	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.78	Brazil	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;

Lacos No.79	Brazil	2*	13+16/ 17+18	2+12/5+10	b, f/i, a/d	Pfloeger et al, 2003;
Lacos No.8	Argentina	1	7+8	5+10	a, b, d	Pfloeger et al, 2003;
Lacos No.80	Brazil	1	13+16	2+12	a, f, a	Pfloeger et al, 2003;
Lacos No.81	Brazil	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.82	Brazil	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.83	Brazil	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.84	Brazil	1	17+18	5+10	a, i, d	Pfloeger et al, 2003;
Lacos No.85	Brazil	2*	17+18	5+10	b, i, d	Pfloeger et al, 2003;
Lacos No.86	Brazil	1	13+16	2+12	a, f, a	Pfloeger et al, 2003;
Lacos No.87	Brazil	2*	17+18	2+12	b, i, a	Pfloeger et al, 2003;
Lacos No.88	Brazil	1	7+9	5+10	a, c, d	Pfloeger et al, 2003;
Lacos No.89	Brazil	1	13+16	5+10	a, f, d	Pfloeger et al, 2003;
Lacos No.9	Brazil	2*	7+9	5+10	b, c, d	Pfloeger et al, 2003;

Lacos No.90	Argentina	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lacos No.91	Brazil	1	7+8	2+12	a, b, a	Pfloeger et al, 2003;
Lacos No.92	Brazil	1	13+16	2+12	a, f, a	Pfloeger et al, 2003;
Lacos No.93	Brazil	1	17+18	2+12	a, i, a	Pfloeger et al, 2003;
Lacos No.94	Brazil	1	7+8	2+12	a, b, a	Pfloeger et al, 2003;
Lacos No.95	Brazil	2*	7+8/17+18	2+12	b, b/i, a	Pfloeger et al, 2003;
Lacos No.96	Brazil	null	17+18	5+10	c, i, d	Pfloeger et al, 2003;
Lacos No.97	Brazil	2*	7+8/ 7+9	2+12/5+10	b, b/c, a/d	Pfloeger et al, 2003;
Lacos No.98	Brazil	2*	7+9	2+12	b, c, a	Pfloeger et al, 2003;
Lacos No.99	Brazil	2*	7+8	5+10	b, b, d	Pfloeger et al, 2003;
Lad-217	Poland	null	7+9	2+12	c, c, a	Waga and Bietz, 1997;
Lada	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Lada-odesskaya	Ukraine	1/2*	7+8/7+9	5+10	a/b, b/c, d	Rabinovich et al, 2001;

Ladoga	Russia	null	7j	5+10	c, aj, d	Anon, 1998;
Laiyang-4671	China	1	7+9	2+12/5+10	a, c, a	Wang et al, 1993;
Laiyangqiu	China	null	7+9	2+12	c, c, a	He et al, 1992;
LAJ2548/JACANA/JACANA	CIMMYT-29TH IBWSN	2*/1	7+9	2+12	b, c, a	Payne and Pena, 2006;
Lake	Canada	2*	6+8	2+12\5+10	b, d, ald	Anon, 1998;
Lake (CT 918)	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
Lakin	U.S.A.	2*	7+9	5+10	b, c, d	Pike and MacRitchie, 2004;
Lakota	U.S.A.	null	6+8	-	c, d,	Branlard and Le Blank, 1985;
Lalvar	Armenia	2*	7*+9	2+12	b, c, a	Bekes et al 2008
Lamar	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Lambro	Italy	j	V.	-	j, r,	McIntosh et al, 1988; McIntosh et al, 1989; McIntosh et al, 1991; Vallega and Waines, 1987; Turchetta et al, 1995;
Lambros	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Lan	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;

Lanca	Poland	null	7+9	-	, c,	Waga, 1992
Lance	Australia	2*/1	17+18	2+12/5+10	b/a, i, a/d	Waga, 1992;
Lance-a	Australia	2*	17+18	2+12	b, i, a	Lawrence, 1986
Lance-c	Australia	2*	17+18	5+10	b, i, d	Lawrence, 1986
Lancer	Canada	2*	7+8	5+10	b, b, d	Ng and Pogna, 1989; Anon, 1998; Bushuk, 1997
Lancer	U.S.A.	2*	7+9	5+10/3+12	b, c, d/b	Lookhart et al, 1993;
Lancota	U.S.A.	2*/null	13+16	2+12/3+12	b/c, f, a/b	McIntosh et al, 1991; McIntosh et al, 1990; McIntosh et al, 1989; Graybosh, 1992; Anon, 1998;
Landrace No. 11	India	2*	7+8	5+10	b, b, d	Singh et al 2007
Landrace No. 17	India	2*	7+9	2+12	b, d, a	Singh et al 2007
Landrace No. 22	India	2*	17+18	2+12	b, i, a	Singh et al 2007
Landrace No. 23	India	1	7+9	5+10	a, d, d	Singh et al 2007
Landrace No. 24	India	2*	7+9	2+12	b, d, a	Singh et al 2007
Landrace No. 25	India	1	17+18	2+12	a, i, a	Singh et al 2007

Landrace No. 27	India	null	17+18	2+12	cull, i, a	Singh et al 2007
Landrace No. 28	India	2*	7+9	2+12	b, d, a	Singh et al 2007
Landrace No. 33	India	2*	7+8	2+12	b, b, a	Singh et al 2007
Landrace No. 34	India	2*	13+16	2+12	b, f, a	Singh et al 2007
Landrace No. 35	India	1	20	5+10	a, e, d	Singh et al 2007
Landrace No. 37	India	1	7+8	2+12	a, b, a	Singh et al 2007
Landrace No. 39	India	2*	17+18	2+12	b, i, a	Singh et al 2007
Landrace No. 40	India	2*	7+9	2+12	b, d, a	Singh et al 2007
Landrace No. 41	India	2*	7+8	2+12	b, b, a	Singh et al 2007
Landrace No. 42	India	1	13+16	New	a, f, N	Singh et al 2007
Landrace No. 43	India	1	13+16	New	a, f, N	Singh et al 2007
Landrace No. 44	India	2*	17+18	5+10	b, i, d	Singh et al 2007
Landrace No. 45	India	2*	7+9	2+12	b, d, a	Singh et al 2007

Landrace No. 46	India	2*	7+8	2+12	b, b, a	Singh et al 2007
Landrace No. 47	India	2*	7+8	2+12	b, b, a	Singh et al 2007
Landrace No. 6	India	1	17+18	5+10	a, i, d	Singh et al 2007
Landrace No. 8	India	2*	17+18	2+12	b, i, a	Singh et al 2007
Landrace-1600	U.S.A.	g	-	-	g, ,	McIntosh et al, 1990; McIntosh et al, 1989; McIntosh et al, 1991;
Landvete-fran-uppsala	Sweden	null/1	7+9/7+8/20	2+12/5+10	c/a, c/b/e, a/d	Gregova et al, 2004;
Lang	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
Langdon	U.S.A.	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Langlois-1527	Algeria	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Languedoc	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;
Lankao 24	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Lanzizao	China	null	7+8	2+12	c, b, a	He et al, 1992;
Lap-3363	Argentina	2*	7+9	5+10	b, c, d	Vozquez et al, 2003

Lap-3495	Argentina	2*	17+18/7+9	2+12	b, i/c, a	Vozquez et al, 2003
Lap-3679	Argentina	1	7*+8	5+10	a, u, d	Vozquez et al, 2003
Lap-4094	Argentina	1	7+9	5+10	a, c, d	Vozquez et al, 2003
La-paz-Inta	Argentina	1/2*	7+8/7+9	5+10	a/b, b/c, d	Gianibelli et al, 2002; Vozquez et al, 2003
Laporte	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
La-prevision	Argentina	null	17+18	-	, i,	
Lapusnicel-1	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Laredo	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Lario	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Lark	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005; Anon, 1993c;
Lark	U.S.A.	2*	17+18	5+10	b, i, d	Rabinovich et al, 2001;
Larned	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992; Lookhart et al, 1993;
Larnoch	U.K.	2*	6+8	2+12	b, d, a	Griffin et al, 2001;

Lars	Germany	null/2*	7+9	5+10	c, c, d	Masauskiene et al, 2002;
Las-rosas-Inta	Argentina	1/2*	17+18	5+10	a/b, i, d	Gianibelli et al, 2002;
Lastochka	Kazakhstan	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Latino	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Laura	Canada	1	7+8	5+10	a, b, d	Ng and Pogna, 1989; Bushuk, 1997; Anon, 1998;
Laurel-inia	Chile	2*	7+8	5+10	b, b, d	Vozquez et al, 2003
Lauria	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Laval-19	Canada	1	7+9	5+10	a, c, d	Ng and Pogna, 1989; Dubuc and Boudreau, 1992;
Lavett	Sweden	2*	14+15	5+10	b, h, d	Johansson et al, 1993;
Lawson	Australia	2*	6+8	2+12	b, d, a	Cornish, 2005
Ld-222	U.S.A.	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;
Le-2232	Uruguay	2*	17+18	5+10	b, i, d	
Le-2240	Uruguay	2*	7*+8	5+10	b, u, d	Vozquez et al, 2003

Le-2278	Uruguay	1	7*+8	5+10	a, u, d	Vozquez et al, 2003
Le-2281	Uruguay	2*	7*+8	2+12	b, u, a	Vozquez et al, 2003
Le-2282	Uruguay	1	7*+8	5+10	a, u, d	Vozquez et al, 2003
Le-2283	Uruguay	1	7*+8	5+10	a, u, d	Vozquez et al, 2003
Leader	Canada	2*	7+8	5+10	b, b, d	Ng and Pogna, 1989; Anon, 1998;
Leap	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Leda	Russia	2*/1	7+8/7+9	5+10	b/a, b/c, d	Ya, 1997; Rabinovich et al, 2000a;
Lee	Canada	null/2*	20	5+10	c/b, e, d	Bushuk, 2006;
Lee	U.S.A.	null/2*	20	5+10	c/b, e, d	Anon, 1998; Rabinovich et al, 2000b;
Leeds	U.S.A.	null	20	-	c, e,	Branlard and Le Blank, 1985;
Legenda	Ukraine	1/2*	7+9/17+18	5+10	a/b, c/i, d	Rabinovich et al, 2001;
Leguan	Czech Republic	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b;
Leichhardt	Australia	1	17+18	5+10	a, i, d	Wrigley et al, 2005

Leif	U.S.A.	2*	7+8	5+10	b, b, d	Cornish, 2005;
Leleka	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Lelija	Yugoslavia	1	7+8	5+10	a, b, d	Kolster et al, 19881; Vapa and Sanic, 1988;
Lely	Netherlands	1	6+8	2+12	a, d, a	Kolster et al, 1993;
Lelya	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Len	U.S.A.	1/2*	7+9	5+10	a/b, c, d	Anon, 1998;
Leningradka	Russia	2*	6+8	38	b, d, s	McIntosh et al, 1991; Morgunov et al, 1990;
Leningradskaya-88	Russia	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Lennox	Canada	1	7+9	5+10	a, c, d	Ng and Pogna, 1989; Anon, 1998;
Leo	U.K.	null	7+9	2+12	c, c, a	Cornish, 2005;
Leone	Italy	1	7+8/7*+8	2+12	a, b/u, a	Pogna et al, 1989;
Leones-Inta	Argentina	1	OE7+8*	2+12	a, al, a	Gianibelli et al, 2002;
Leopardo	Italy	1	7*+8/20	5+10	a, u/e, d	Pogna et al, 1989;

Leopardo(1)	Italy	1	7*+8	5+10	a, u, d	Pogna et al, 1989
Leopardo(2)	Italy	1	20	5+10	a, e, d	Pogna et al, 1989
Leopold	Austria	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Lepenica	Yugoslavia	1/2*	7+8	5+10	a/b, b, d	Vapa, 1989; Vapa and Sanic, 1988; Knezevic et al, 1993; Vapa et al, 1988
Lepta	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000a
Lerma	Mexico	null	13+16	2+12	c, f, a	Anon, 1998;
Lermarojo	India	2*	13+16	2+12	b, f, a	Ram, 2003;
Lerma-rojo	Mexico	2*	7+8	5+10	b, b, d	Anon, 1998; May, 2004;
Lerma-rojo-64	Mexico	2*	13+16	2+12	b, f, a	Rabinovich et al, 2000b;
Lerma-rojo-64-a	Mexico	2*	7+8	5+10	b, b, d	Cornish, 2005;
Lermisso	Mexico	2*/null	7+8	2+12	b/c, b, a	Cornish, 2005;
Letaba	South Africa	2*	7+9	5+10	b, c, d	Cornish, 2005;
Leucomelan-2	Russia	1	7+8	-	a, b,	Anon, 1989; Vallega, 1988;

Levendis	Germany	1	7+9	5+10	a, c, d	Groger et al, 2005
Lew	U.S.A.	2*/1	7+9/7	5+10	b/a, c/a, d	Rabinovich et al, 2000b; Lookhart et al, 1993;
LFN/II58.57/ /PRL/3/HAHN/4/KAUZ/5/KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
LFN/II58.57//PRL/3/HAHN	CIMMYT-8TH HRWSN	1	7+8	2+12	a, b, a	Payne and Pena, 2006;
Lgovskaya-167	Russia	1/2*	7+9	5+10	a/b, c, d	Ya, 1997;
Li	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
Lia 9906	Litvania	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
Lia 9910	Litvania	null	6+8	2+12	c, d, a	Tohver et al, 2001, Tohner, 2007;
Lia 99102	Litvania	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;
Lia 9943	Litvania	null/2*	7/6+8	2+12/5+10	c/b, a/d, a/d	Tohver et al, 2001, Tohner, 2007;
Lia 9947	Litvania	null/2*	13+16/7+9	5+10	c/b, f/c, d	Tohver et al, 2001, Tohner, 2007;
Lia 9976	Litvania	2*/1	7+9	5+10	b/a, c, d	Tohver et al, 2001, Tohner, 2007;
Lia 99–90	Litvania	null	7/7+9	5+10	c, a/c, d	Tohver et al, 2001, Tohner, 2007;

Lia 99–91	Litvania	1/2*	7+8	5+10	a/b, b, d	Tohver et al, 2001, Tohner, 2007;
Liao-8613	China	2*	7+8	5+10/2+12	b, b, d	Wang et al, 1993;
Liaochun-1	China	2*	7+8	5+10	b, b, d	He et al, 1992;
Liaochun-10	China	1	7+8	5+10	a, b, d	Xue-Yong et al, 2002
Liaochun-5	China	2*	17+18	5+10	b, i, d	He et al, 1992;
Libellula	Italy	1	20	2+12	a, e, a	Soltes-Rak, 1991; Pogna et al, 1989;
Libero	Italy	null	7+9	5+10	c, c, d	Borghi, 1995;
Libero	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989;
Licanka	Yugoslavia	2*/null	7+9	2+12	b/c, c, a	Vapa, 1989; Dencic and Borojevich, 2001;
Licorno	Italy	1	7+9	5+10	a, c, d	Pogna et al, 1989;
Liken-2	China	1	7+8/7+9	5+10	a, b/c, d	Xue-Yong et al, 2002
Lilian	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Lillimur	Australia	2*	17+18/13+16	2+12	b, i/f, a	Anon, 1993c; Anon, 1998; May, 2004;

Limburgse-kleine-rode	Netherlands	1	6+8/7+8	5+10/2+12	a, d/b, d/a	Gregova et al, 1999;
Lin-7	China	1	7+9	5+10/4+12	a, c, d	Wang et al, 1993;
Lina	Litvania	null	7+9	5+10	c, c, d	Paplauskiene and Ruzgas, 2002;
Linda	Czech Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997; Sasek et al, 1997; Rabinovich et al, 2000b;
Lindon	U.S.A.	1	7+8	3+12	a, b, b	Graybosh, 1992;
Lindos	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Line-f	Australia	2*	7	5+10	b, a, d	Rayfuse and Jones, 1993
Line-f	Australia	2*	7	5+10	b, a, d	Rayfuse and Jones, 1993;
Line-s	Australia	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993
Linfen 125	China	1	7+8	4+12	a, b, c	Liu et al, 2005;
Linfen 127	China	1	14+15	2+12	a, h, a	Liu et al, 2005;
Linfen 133	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Linfen 137	China	1	14+15	2+12	a, h, a	Liu et al, 2005;

Linfen 138	China	2 ⁺	7+8	2+12	b, b, a	Liu et al, 2005;
Linfen 139	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Linfen 5232	China	2 ⁺	7+9	2+12	b, c, a	Liu et al, 2005;
Linfen 6010	China	null	7+9	2+12	c, c, a	He et al, 2005;
Linfen 98-6269	China	2 ⁺	7+8	2+12	b, b, a	Liu et al, 2005;
Linfen-3188	China	2 [*]	7+9	2+12	b, c, a	Wang et al, 1993;
Linfen-6010	China	null	7+9	2+12	c, c, a	Wang et al, 1993; He et al, 1992;
Linfeng 615	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Linhan 205	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Linhan 6114	China	2 ⁺	7+9	2+12	b, c, a	Liu et al, 2005;
Linhan 619	China	2 ⁺	7+9	2+12	b, c, a	Liu et al, 2005;
Linhan 917	China	2 ⁺	7+9	2+12	b, c, a	Liu et al, 2005;
Linna	Finland	2 [*]	7+9	2+12	b, c, a	Cornish, 2005;

Linyou 1583	China	1	6+8	4+12	a, d, c	Liu et al, 2005;
Liocorno	Italy	1	7+9	5+10	a, c, d	Anon. 1993d;
Lira	Italy	null	20	-	, e,	Turchetta et al, 1995;
Lira	Russia	2*/1	7+9	5+10	b/a, c, d	Rabinovich et al, 2000a;
Lira	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
LIRA//AU/UP301	CIMMYT-7TH HRWSN	2*	7	5+10	b, a, d	Payne and Pena, 2006;
LIRA/BUC	CIMMYT-14TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
LIRA/BUC	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
LIRA/CEP80111	CIMMYT-8TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
LIRA/SHA5	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
LIRA/SHA5	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
LIRA/TAN	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Lira-krasnodara	Russia	2*/1	7+9	5+10	b/a, c, d	Rabinovich et al, 2000a;

Lirna-2	Portugal	1	7+9	5+10	a, c, d	Igrejas et al, 1999
Little-club	U.S.A.	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Little-joss	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Livia	Slovak Republic	null/1	7+9	5+10	c/a, c, d	Gregova et al, 1997; Sasek et al, 1997;
Livio	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Livius	Austria	null	7+9	5+10	c, c, d	Groger et al, 1997;
Ljubicevka	Yugoslavia	2*	7+9/14+15	5+10	b, c/h, d	Vapa, 1989;
Lloyd	U.S.A.	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Lobeiro	Portugal	1	14+15	-	a, h,	Vallega and Mello-Sampayo 1987;
Lobeiro-de-grao-escuro	Spain	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;
Local Navalgunda	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Local Red Dharwad	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Local Vidharbha	India	2*	20	-	b, e, -	Oak et al, 2004;

Local Yellow Dharwad	India	2*	14 + 15	-	b, h, -	Oak et al, 2004;
Lockett	U.S.A.	null	7+8	5+10	c, b, d	Shan et al, 2007;
Lodi	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Logan	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Lok-1	India	2*	7+8	2+12	b, b, a	Das et al, 2001;
Lona	Chile	1	14+15	2+12	a, h, a	Kazman and Lein, 1996;
Lone	Denmark	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;
Long-83-3108	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Longbow	U.K.	null	7+9/7	2+12	c, c/a, a	Branlard et al, 2003; Anon. 1993d
Longchun-7	China	1	7+8	2+12	a, b, a	He et al, 1992;
Longhorn	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Longmai-10	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Longos	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;

Lonja	Croatia	1	20/7+9	2+12/5+10	a, e/c, a/d	Vapa, 1989; Knezevic et al, 1993; Pogna et al, 1989
Lontra	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
Loreto	Italy	1	17+18	2+12	a, i, a	Pogna et al, 1989; Stoeva et al, 1997;
Lori-24	Armenia	null	7*+8	2+10	c, u, e	Urazaliev,2003;
Lori-292	Armenia	2*/null	7*+8/6+8	2+10	b/c, u/d, e	Urazaliev,2003;
Lorikeet	Australia	2*	7*+8	2+12	b, u, a	Wrigley et al, 2005
Loros	U.S.A.	e	7+8	2+12	e, b, a	Cornish, 2005;
Louise	U.S.A.	null	7+9	5+10	c, c, d	Anon, 2006;
Louvre	Netherlands	null	7+9	2+12	c, c, a	Kazman and Lein, 1996; Branlard et al, 2003;
Lovaszpatonai-407	Hungary	2*	22	5+10	b, k, d	Bedo and Lang, 2005
Love-hh-b-10	China	null/2*	7+8/13+16	2+12	c/b, b/f, a	Rayfuse and Jones, 1993
Lovrin	Romania	1	21	2+12/5+10	a, j, a/d	Cornish, 2005;
Lovrin-10	Romania	null	7+9	5+9	c, c, g	Xue-Yong et al, 2002

Lovrin-41	Romania	2*/null	7+9	5+10/2+12	b/c, c, d/a	Hagima et al, 1989;
Lowan	Australia	1	7+8/7*+8	5+10	a, b/u, d	Anon, 1993c; Wrigley et al, 2005
Lu 875067	China	2*	7+8	2+12	b, b, a	He et al, 2005;
Lu 884187	China	1	13+16	4+12	a, f, c	He et al, 2005;
Lu 915091	China	null	7*+8	2+12	c, u, a	He et al, 2005;
Lu 916	China	1	7+9	5+10	a, c, d	He et al, 2005;
Lu 935031	China	1	7+8	2+12	a, b, a	He et al, 2005;
Lu 95(6)161	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Lu 954072	China	1	13+16	5+10	a, f, d	He et al, 2005;
Lu 955159	China	1	13+16	4+12	a, f, c	He et al, 2005;
Lu-215953	China	1	7+8	2+12	a, b, a	He et al, 1992;
Lu-26	Pakistan	2*	7+9	5+10	b, c, d	Tahir et al, 1995;
LUAN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

LUAN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Lubava	Kazakhstan	2*	17+18	2+12	b, i, d	Morgounov et al 2008
Lucas	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Lucciola	Italy	1	20/7	2+12	a, e/a, a	Pogna et al, 1989;
Lucciola(1)	Italy	1	20	2+12	a, e, a	Pogna et al, 1989
Lucciola(2)	Italy	1	7	2+12	a, a, a	Pogna et al, 1989
Lucera	Italy	1	7+9	5+10	a, c, d	Pogna et al, 1989;
Lucia	Chile	2*	6+8	5+10	b, d, d	Pogna et al, 1989;
LUCO-M//KAUZ/PVN	CIMMYT-30TH IBWSN	2*	7+9	2+10	b, c, e	Payne and Pena, 2006;
LUCO-M//KAUZ/STAR	CIMMYT-30TH IBWSN	2*	7+8	2+10	b, b, e	Payne and Pena, 2006;
Ludwig	Austria	null	6+8	5+10	c, d, d	Groger et al, 2005
Luganskaya-4	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Luja	Finland	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b; Tohver et al, 2001; Branlard et al, 2003;

Lukas	Austria	1	7	5+10	a, a, d	Groger et al, 2005
Luke	U.S.A.	1	7+9	2+12	a, c, a	Lookhart et al, 1993;
Lumai 19	China	1	7+8	2+12	a, b, a	He et al, 2005;
Lumai 21	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Lumai 22	China	null	7+9	2+12	c, c, a	He et al, 2005;
Lumai 23	China	1	20	2+12	a, e, a	Liu et al, 2005;
Lumai-1	China	1	7+8	2+12/5+9	a, b, a/g	He et al, 1992; Khan et al, 1989
Lumai-11	China	1	7+8	2+12	a, b, a	Wang et al, 1993; He et al, 1992;
Lumai-12	China	1	7+8	2+12	a, b, a	Wang et al, 1993;
Lumai-14	China	1	7+9	4+12	a, c, c	He et al, 1992;
Lumai-15	China	1	7+8	2+12	a, b, a	He et al, 1992;
Lumai-2	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Lumai-7	China	1	7+9	2+12	a, c, a	He et al, 1992;

Lumai-8	China	1	7+8/7*+8	4+12/2+12	a, b/u, c/a	Wang et al, 1993; He et al, 1992;
Lumanian	China	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Lunca-ilvei	Romania	null	7+9	5+10	c, c, d	Popa et al, 2004
Lunca-ilvei-1	Romania	1	7+8	5+10	a, b, d	Popa et al, 2004
Lunca-ilvei-2	Romania	null	7+9	5+10	c, c, d	Popa et al, 2004
Lundi	Zimbabwe	1	7+8	2+12	a, b, a	Cornish, 2005;
Luo-6210	China	null	7+9	4+12	c, c, c	He et al, 1992;
Luron	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985;
Lutece	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;
Lutescens 1060 10	Russia	2*	7+8	5+10/2+12	b, b, d/a	Gregova et al, 1999;
Lutescens 1085	Kazakhstan	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 115	Russia	1	7*+9	5+10	a, c, d	Morgounov et al 2008
Lutescens 116	Russia	1/null	7+8/7+9	5+10	a/c, b/c, d	Gregova et al, 2004;

Lutescens 121	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Lutescens 1300	Kazakhstan	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Lutescens 1350	Kazakhstan	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens 144/00-2	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens 148-97-16	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens 158	Russia	1	7*+9	5+10	a, c, d	Morgounov et al 2008
Lutescens 166 94	Kazakhstan	1	7*+8	5+10	a, u, a	Morgounov et al 2008
Lutescens 166-94	Kazakhstan	1	7*+8	5+10	a, u, d	Morgounov et al 2008
Lutescens 167/98-4	Russia	2*	17+18	5+10	b, i, d	Morgounov et al 2008
Lutescens 197/96-3	Russia	2*	7*+8	5+10	b, u, d	Morgounov et al 2008
Lutescens 20	Kazakhstan	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Lutescens 200/01-5	Russia	2*	7*+8	5+10	b, u, a	Morgounov et al 2008
Lutescens 211/98-4	Russia	2*	7*+8	5+10	b, u, a	Morgounov et al 2008

Lutescens 239/97-1	Russia	2*	7*+8	5+10	b, u, d	Morgounov et al 2008
Lutescens 242/97-1	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 25	Russia	2*	7+8/7+9	2+12	b, b/c, a	Rabinovich et al, 2001;
Lutescens 25/93-3-5	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 25/93-3-7	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 290/90-2	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 290/99-7	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Lutescens 290/99-9	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Lutescens 307/97-7	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 313/00-6	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens 32	Kazakhstan	1	7+8/7+9	5+10	a, b/c, d	Absattarova, 2005;
Lutescens 322/00-4	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens 329	Russia	1	7+8/7+9/6+8	5+10	a, b/c/d, d	Gregova et al, 2004;

Lutescens 333/01-14	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Lutescens 333/01-17	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens 38	Kazakhstan	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Lutescens 386/01-3k	Russia	null	7*+9	5+10	c, c, a	Morgounov et al 2008
Lutescens 391/00-2	Russia	2*	7*+8	5+10	b, u, d	Morgounov et al 2008
Lutescens 393/00-2	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 395/00-12	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Lutescens 4140	Russia	2*	17+18	5+10	b, i, a	Morgounov et al 2008
Lutescens 423/99-2	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Lutescens 423/99-8	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens 521	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001; Bespalov, 1994;
Lutescens 53-95	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Lutescens 55 11	Russia	null	7+9	2+12	c, c, a	Morgunov et al, 1990; Bespalov, 1994;

Lutescens 62	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Lutescens 7	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Lutescens 72	Russia	2*	7+9/7*+8	5+10	b, c/u, d	Ya, 1997; Urazaliev,2003;
Lutescens 9	Russia	1	7+9	5+10	a, c, d	Rabinovich et al 2001
Lutescens 90	Kazakhstan	1	7+9	2+12	a, c, a	Absattarova, 2005;
Lutescens 937	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Lutescens 94	Kazakhstan	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Lutescens 956	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Lutescens T-4-27	Russia	2*	7*+8	2+12	b, u, a	Morgounov et al 2008
Lutin	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Luzanovka-odesskaya	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Luzhi-79-1	China	1	7+8	5+9	a, b, g	Xue-Yong et al, 2002
Lyallpur-73	Pakistan	1	17+18	5+10	a, i, d	Tahir et al, 1995;

Lydia	Greece	1	7+8	2+12	a, b, a	Matsoukas and Morrison, 1991
Lynx	U.K.	null	6+8	3+12	c, d, b	Cornish, 2005
Lyuba	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;
Lyubava-odesskaya	Ukraine	1	7+8/7+9	5+10	a, b/c, d	Rabinovich et al, 2001;
M-3087-222	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
M-5108	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
M-5184	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
M-72-1250	U.S.A.	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
M-85-9	U.S.A.	null	7+9/7+8	2+12	c, c/b, a	Rayfuse and Jones, 1993; Khan et al, 1989
Machang-2	China	1	6*+8*	2+12	a, w, a	He et al, 1992;
Machete	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005; Anon, 1993c;
Mackellar	Australia	null	6+8	2+12	c, d, a	Cornish, 2005
Macon	U.S.A.	2*	17+18	5+10	b, i, d	Anon, 2006;

Macoun	Canada	null	6+8	-	c, d,	Anon, 1989; Ng and Pogna, 1989; Vallega, 1988;
Macquarie	Australia	2*	7+9/7	2+12	b, c/a, a	Lawrence, 1986
MACS 2574	India	null	14 +15	-	c ,h, -	Oak et al, 2004;
MACS 2694	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
MACS 2846	India	null	20	-	c, e, -	Oak et al, 2004;
MACS-1967	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
MACS2496	India	1	7+9	5+10	a, d, d	Ram, 2003;
MACS-9	India	null	7 + 8	-	c, b, -	Oak et al, 2004;
Macvanka-1	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989; Dencic and Borojevich, 2001; Kolster et al, 19881;
Macvanka-2	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989;
Madden	Australia	2*	17+18	2+12/5+10	b, i, a/d	Anon, 1993c; Wrigley et al, 2005
Mado	Netherlands	1	20	2+12	a, e, a	Kolster et al, 1993;
Madrigal	U.K.	null	6+8	3+12	c, d, b	Kazman and Lein, 1996;

Madsen	U.S.A.	2*	13+16	5+10	b, f, d	Galova et al, 2001
Maestra	Italy	2*	7+9	5+10	b, c, d	Borghi, 1995;
Maestro	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Magali	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Magdalena	France	null	7+9	5+10	c, c, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Magdalena	Hungary	2*	7+9	5+10/2+12	b, c, d/a	Bedo and Lang, 2005
Magellan	U.K.	1	6+8	3+12	a, d, b	Kazman and Lein, 1996;
Magister	Netherlands	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Magistralnaya-1	Russia	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2001;
Magnif-27	Argentina	2*	13+16	2+12	b, f, a	Branlard et al, 2003;
Magnifico	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Magnum	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Magnus	Austria	null	6+8/20	2+12/5+10	c, d/e, a/d	Groger et al, 1997; Groger, 2005

Magura Ilvei	Romania	1	7+9	2+12	a, c, a	Popa et al, 2004
Magura Ilvei 1	Romania	null	7j	5+10	c, aj, d	Popa et al, 2004
Magura Zavoi	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Magvas	Hungary	1	7+8/7+9	5+10	a, b/c, d	Bedo and Lang, 2005
Mahdavi	Iran	2*/1/null	b/17+18	2+12	b, b/i, a	Bahraei et al, 2004;
Mahmoudi	Tunesia	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Mahti	Finland	1	7+8	5+10	a, b, d	Tohver et al, 2001;
MAI/PJ62//EMU/3/MRL/BUC	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Maimin	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Maioral	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Maitre-pierre	France	null	20	2+12	c, e, a	Branlard and Le Blank, 1985;
Maja	Czech Republic	1	7+8/7+9	5+10	a, b/c, d	Gregova et al, 1997; Sasek et al, 1997; Rabinovich et al, 2000b
Major	France	null	7+8/7+9	5+10/2+12	c, b/c, d/a	Branlard and Le Blank, 1985; Groger, 2005

Makedonka	Macedonia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Makit	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Malaviya-206	India	1	7+9	5+10	a, c, d	Das et al, 2001;
Malaviya-37	India	1	17+18	2+12	a, i, a	Rabinovich et al, 2001;
Maltsevskaya 110	Russia	null	7*+9	5+10	c, c, a	Morgounov et al 2008
Malvi Local	India	null	6 + 8	-	c, d, -	Oak et al, 2004;
Mambo	Hungary	2*	7+8	2+12	b, b, a	Bedo and Lang, 2005
Manda	Croatia	1	7+9	2+12	a, c, a	Jurkovic et al, 2000;
Mandate	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Mandon	France	null	20	-	c, e,	Branlard and Le Blank, 1985;
Manella	Netherlands	1	7	2+12	a, a, a	Kolster et al, 1993; Branlard and Le Blank, 1985; Anon, 1998;
MANGO/VEE#10//PRL	CIMMYT-29TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
MANGO/VEE#10//PRL	CIMMYT-29TH IBWSN	1/2*	7+9	5+10	a/b, c, d	Payne and Pena, 2006;

MANGO/YR//PRL	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Manhattan	U.S.A.	null	17+18	2+12	c, i, a	Groger et al, 2005
Manital	Italy	2*	17+18	2+12	b, i, a	Pogna et al, 1989; Piergiovanni and Blanco, 1999; Branlard et al, 2003; Turchetta et al, 1995;
Manitou	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Bushuk, 1997; Anon, 1998;
Manitou (RL 4159)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Manning	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993;
Mantle	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Manu	Finland	2*	7+8	5+10	b, b, d	Sontag-Strohm, 1997;
Maparcha	Afghanistan	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;
Maqui-inia	Chile	1/2*	13+16	5+10	a/b, f, d	Vozquez et al, 2003
Mara	Italy	null	7	2+12	c, a, a	Pogna et al, 1989; Dencic and Borojevich, 2001;
Marabu	Germany	1/ null	6+8	2+12	a/c, d, a	Masauskiene et al, 2002;
Mara-supremo-mentana	Chile	null	7+8	2+12	c, b, a	Cornish, 2005;

Marberg	U.S.A.	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Marchetti-112	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Marco-juarez-Inta	Argentina	1	17+18	5+10	a, i, d	Gianibelli et al, 2002;
Mardler	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Marengo	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;
Marfed	U.S.A.	2*	20	2+12	b, e, a	Rabinovich et al, 2000b;
Marianela	Chile	1	17+18	5+10	a, i, d	Lookhart et al, 1993;
Marienhofer-kolben	Austria	1/null	7+8	2+12/5+10	a/c, b, a/d	Gregova et al, 2004;
Marignan	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Marimp-3	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Marimp-8	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Marinar	Spain	null	30+31	-	, ap.	McIntosh et al, 1991; McIntosh et al, 1998;
Maringa	Brazil	2*	13+16	2+12	b, f, a	Vozquez et al, 2003

Marinka	Slovenia	null	7+9	2+12	c, c, a	Vapa, 1989;
Maris-beacon	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Maris-bilbo	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Maris-brigand	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Maris-butler	U.K.	null	20	2+12	, e, a	Cornish, 2005;
Maris-dove	U.K.	null	14+15	5+10	c, h, d	Cornish, 2005;
Maris-durin	U.K.	null	6+8/7+8	2+12	c, d/b, a	Kolster et al, 1993; Anon, 1998;
Maris-fenman	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Maris-freeman	U.K.	1	7	2+12	a, a, a	Cornish, 2005;
Maris-fundin	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Maris-hobbit	U.K.	null	7/6+8	3+12	c, a/d, b	Branlard and Le Blank, 1985; Branlard et al, 2003; Anon, 1998;
Maris-huntsman	U.K.	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985; Bonjean et al, 2001; Branlard et al, 2003; Rogers et al, 1989;
Maris-hustler	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;

Maris-kinsman	U.K.	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Maris-mardler	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Maris-marksman	U.K.	null	6+8	2+12	c, d, a	Kolster et al, 1993; Anon, 1998;
Maris-nimrod	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Maris-ranger	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Maris-sportsman	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Maristella	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Maris-templar	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Maris-widgeon	U.K.	1	7	2+12	a, a, a	Cornish, 2005;
Marius	France	null	7+9	4+12/2+12	c, c, c/a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Marival	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Markant	Germany	null	7+9	5+10	c, c, d	Waga, 1992; Kazman and Lein, 1996; Rogers et al, 1989;
Markischer-land	Germany	null	7+8	5+10	c, b, d	Gregova et al, 2004;

Marksman	U.K.	null	6+8	2+12	c, d, a	Kolster et al, 1993; Anon, 1998;
Markus	Germany	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;
Marly	France	1	7	2+11	a, a, q	Branlard and Le Blank, 1985;
Marne-desprez	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985; Rabinovich et al, 2000b;
Marombi	Australia	1	17+18	2+12	a, i, a	Cornish, 2005
Marques	Portugal	null	13+16	-	c, f,	Vallega and Mello-Sampayo 1987;
Marquillo	U.S.A.	1	7+9/7+8	5+10	a, c/b, d	Graybosh, 1992;
Marquis	Canada	1	7+9	5+10	a, c, d	Graybosh, 1992; Ng and Pogna, 1989; Anon, 1998;
Marquis-K	Canada	1	7+9	5+10	a, c, d	Anon, 1998;
Marrier	U.K.	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Marroquino-preto	Morocco	1	20	-	a, e,	Vallega and Mello-Sampayo 1987;
Marshall	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993; Anon, 1998; Rabinovich et al, 2000b;
Marshalls-3	Australia	2*	7	2+12	b, a, a	Cornish, 2005

Martial	France	null	7+8	2+12	c, b, a	Branlard et al, 2003;
Martin	Austria	null	7+9	5+10	c, c, d	Groger et al, 1997;
Martonvasari-1	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
Martonvasari-10	Hungary	1	7*+8	2+12/5+10	a, u, a/d	
Martonvasari-11	Hungary	1/2*	7*+9/7*+8	5+10	a/b, c/u, d	Bekes et al 2008
Martonvasari-12	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 1997;
Martonvasari-13	Hungary	1/2*	7*+9	5+10	a/b, c, d	Bekes et al 2008
Martonvasari-14	Hungary	1	7	2+12	a, a, a	Bedo and Lang, 2005
Martonvasari-14-04	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Martonvasari-15	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Martonvasari-16	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Martonvasari-17	Hungary	2*	7+9/7	2+12	b, c/a, a	Sobko and Sozinov, 1999; Bedo and Lang, 2005
Martonvasari-19	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005

Martonvasari-2	Hungary	2*	7+8	5+10	b, b, d	Bedo and Lang, 2005
Martonvasari-20	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Martonvasari-21	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Martonvasari-22	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005
Martonvasari-23	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005
Martonvasari-24	Hungary	2*	7+9	5+10	b, c, d	Sobko and Sozinov, 1999;
Martonvasari-25	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Martonvasari-3	Hungary	1/2*	7+9	5+10	a/b, c, d	Bedo and Lang, 2005
Martonvasari-4	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 1997; Anon, 2001;
Martonvasari-5	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 1997;
Martonvasari-6-Regi	Hungary	2*	7+9	2+12/5+10	b, c, a/d	
Martonvasari-7	Hungary	1/2*	7*+9	5+10	a/b, c, d	Bekes et al 2008
Martonvasari-8	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005

Martonvasari-9	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 1997;
Marvdasht	Iran	2*	b	2+12	b, b, a	Bahraei et al, 2004;
Masha	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2000a;
Massey	U.S.A.	null	7	2+12	c, a, a	Graybosh, 1992;
Massiv	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Master	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Match	France	1	7+8	2+12	a, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Matong	Australia	1	20	5+10	a, e, d	Cornish, 2005; Anon, 1993c;
Maverick	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Mawson	Australia	1	7+9	5+10	a, c, d	Wrigley et al, 2005
Max	Canada	1	7+9	5+10	a, c, d	Bushuk, 2006;
Max	Germany	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b; Dubuc and Boudreau, 1992;
Max	U.S.A.	1	7+9	5+10	a, c, d	Ng and Pogna, 1989; Anon, 1998;

Maxeeki	Syria	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
MAYA/7/H/ /RA/2F2/3/BB/5YG/ /RA/2F2/6/BB/CNO67/3/CNO	CIMMYT-14TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
MAYA/NAC	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Maya-74	Guatemala	2*	17+18	5+10	b, i, d	Cornish, 2005;
Mazhamai	China	null	7+8	2+10/2+12	c, b, e/a	He et al, 1992; Xue-Yong et al, 2002
Mccall	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Mcdora	Canada	null	6+8	null	c, d, i	Anon, 1998;
Mckenzie	Canada	2*	7+9	5+10	b, c, d	Cavanagh, 2005
McMurrachy	Canada	null	7+8	5+10	c, b, d	Anon, 1998;
Mcnaair-1003	U.S.A.	1	7+8	2+12	a, b, a	Lookhart et al, 1993;
Mcnaair-1813	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Mcnaair-2203	U.S.A.	1	7+8	3+12	a, b, b	Graybosh, 1992;
Mcnaair-701	U.S.A.	1	7+8	3+12	a, b, b	Graybosh, 1992;

Mec	Italy	1	7	2+12	a, a, a	Pogna et al, 1989; Anon. 1993d;
Mec-3	Mexico	1	17+18	5+10	a, i, d	Cornish, 2005;
Mechta-1	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Rabinovich et al, 2004;
Med-17	Mexico	2*	13+16/7+8	2+12	b, f/b, a	Cornish, 2005;
Medora	Canada	null	6+8	-	c, d,	Anon, 1989; Ng and Pogna, 1989; Vallega, 1988;
Meering	Australia	2*	7+8/17+18	2+12	b, b/i, a	Anon, 1993c; Rabinovich et al, 2001;
Mega	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Mehran-89	Pakistan	1	7+9	5+10	a, c, d	Tahir et al, 1995;
Melanopus 223	Kyrgyzstan	2*	6+8	5+10/?	b/c, d, d/?	Bekes et al 2008
Melchior	Netherlands	null	7+9	3+12	c, c, b	Kolster et al, 1993; Pogna et al, 1989; Piergiovanni and Blanco, 1999;
Mendos	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Mengavi	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Mengyou-1	China	1	22	5+9	a, k, g	Xue-Yong et al, 2002

Mentana	Italy	null	7*+8	2+12	c, u, a	He et al, 1992; Pogna et al, 1989;
Mephisto	Germany	1	7	5+10	a, a, d	Groger et al, 1997; Rabinovich et al, 2000b;
Mercero	Spain	2*	7+9	5+10	b, c, d	Igrejas at al, 1999
Mercia	U.K.	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Mercury	U.S.A.	2*	6+8	5+10	b, d, d	Cornish, 2005
Meri	Estonia	2*	7+9	2+12	b, c, a	Sontag et al, 1996;
Merit	France	null	7+9	5+10	c, c, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Merkur	Germany	null	6+8	5+10	c, d, d	Rogers et al, 1989;
Merouani (CItr-2235)	Algeria	2*	20	-	b, e, -	Carillo et al, 2005;
Mersey	Australia	1	20	5+10	a, e, d	Cornish, 2005;
Meshinskaya-2	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Ya, 1997;
Messapia	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Messidor	France	2*	7+8	2+12	b, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;

Messier	Canada	1	7+8	5+10	a, b, d	Ng and Pogna, 1989; Dubuc and Boudreau, 1992;
Meteor	Australia	1/2*	7+8/17+18	2+12/5+10/3+12	a/b, b/i, a/d/b	Anon, 1993c; Wrigley et al, 2005
Metrenco-inia	Chile	null	-	2+12	, , a	Zuniga et al, 2004
Mexicali-s-75	Mexico	null	7+8	-	c, b,	Vallega, 1988; Anon, 1989;
Mexicano-1481	Portugal	null	17+18	5+10	c, i, d	Cornish, 2005;
Mexico-120	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
Mexipak	Pakistan	2*	17+18	2+12	b, i, a	Tahir et al, 1995;
Mg-7249	Japan	2*	7+8	2.2+12	b, b, f	Tahir et al, 1996
Mg-7631	Pakistan	null	7+8	2+12*	c, b, j	Tahir et al, 1996
Mianyang 11	China	null/1	OE7+8	5+10	c/a, al, d	Liu et al 2008
Mianyang 20	China	null	7+8	5+10	c, b, d	He et al, 2005;
Mianyang 26	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Mianyang 940112	China	null	7+8	5+10	c, b, d	Liu et al, 2005;

Mianyang 960107	China	null	7+8	5+10	c, b, d	Liu et al, 2005;
Mianyang 980127	China	1	7+8	4+12	a, b, c	Liu et al, 2005;
Mianyang 98-17	China	null	17+18	5+10	c, i, d	Liu et al, 2005;
Mianyang 98-20	China	null	7+8	5+10	c, b, d	Liu et al, 2005;
Mianyang 99-17	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Mianyang-11	China	1	7+9	5+10	a, c, d	He et al, 1992;
Mianyang-82-53-1	China	2*	7	5+10	b, a, d	Wang et al, 1993;
Mianyang-86-310	China	2*	7	2+12	b, a, a	Wang et al, 1993;
Mianyang-86-35	China	null	7+8	2+12	c, b, a	Wang et al, 1993;
Mianyang-88-104	China	null	20	5+10/2+12	c, e, d	Wang et al, 1993;
Michael	Germany	1	7	5+10	a, a, d	Groger et al, 1997; Rabinovich et al, 2000b;
Miche	France	null	20	5+10	c, e, d	Branlard and Le Blank, 1985;
Michigan-amber	U.S.A.	1/2*	7	2+12	a/b, a, a	Graybosh, 1992;

Michikof	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Michurinka	Ukraine	1	7+8	-	a, b,	Branlard and Le Blank, 1985;
Mida	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Mieka	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
Mieti	Italy	1	7	2+12	a, a, a	Borghi, 1995;
Mikon	Germany	1	7+9	5+10	a, c, d	Waga, 1992; Kazman and Lein, 1996;
Mikunikomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Mila	Croatia	1	7+9	5+10	a, c, d	Jost, 1996;
MILAN	CIMMYT-4TH HRWYT	1	7+8	5+10	a, b, d	Payne and Pena, 2006;
Milan	Germany	null	7+9	2+12	c, c, a	Waga, 1992; Rogers et al, 1989;
MILAN*2/ALTAR 84	CIMMYT-15TH SAWSN	1	7+8	5+10	a, b, d	Payne and Pena, 2006;
MILAN//BUC/CHRC	CIMMYT-15TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
MILAN/AMSEL	CIMMYT-7TH HRWSN	1	7+8	2+12	a, b, a	Payne and Pena, 2006;

MILAN/SHA7	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Milda	Litvania	1	7+9	5+10	a, c, d	Paplauskiene and Ruzgas, 2002;
Miling	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Miljenka	Croatia	1	20	5+10	a, e, d	Vapa, 1989; Knezevic et al, 1993;
Millaleau-inia	Chile	1	7+9	5+10	a, c, d	Vozquez et al, 2003
Millbrook	Netherlands	null	7+8	5+10	c, b, d	Griffin et al, 2001;
Millennium	U.S.A.	2*	7+9	5+10/3+12	b, c, d/b	Shan et al, 2007;
Miller	Netherlands	null	7	2+12	c, a, a	Kolster et al, 1993;
Millewa	Australia	null	17+18	2+12	c, i, a	Cornish, 2005; Anon, 1993c;
Milpain	France	1	7+9	2+12	a, c, a	Branlard et al, 2003;
Milton	Canada	1	7+9	5+10	a, c, d	Ng and Pogna, 1989; Anon, 1998;
Milturum 321	Russia	1/2*	7*+9	5+10	a/b, c, a	Morgounov et al 2008
Milturum 553	Russia	2*	7*+8	2+12	b, u, a	Morgounov et al 2008

Milturum 63	Russia	2*	7*+8	5+10	b, u, d	Morgounov et al 2008
Milturum-215	Ukraine	1	7+8/7+9/20	2+12	a, b/c/e, a	Rabinovich et al, 2001;
Milturum-321	Russia	2*	7+8/7+9	2+12	b, b/c, a	Rabinovich et al, 2001;
Milturum-45	Kazakhstan	2*	7+8	5+10	b, b, d	Morgunov et al, 1990; Bespalov, 1994;
Milturum-553	Russia	1	7+8/7+9	2+12/5+10	a, b/c, a/d	Rabinovich et al, 2001;
MIMUS	CIMMYT-14TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
MIMUS	CIMMYT-4TH SAWYT	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
Minaminokomugi	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Minaret	Netherlands	1	7+9	5+10	a, c, d	Kolster et al, 1993;
Minter	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;
Minto	Australia	null	7+8/7*+8	2+12	c, b/u, a	Anon, 1993c; Wrigley et al, 2005
Minturki	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Mira	Australia	2*	7*+8	5+10	b, u, d	Igrejas at al, 1999

Mira	Portugal	2*	17+18	2+12	b, i, a	Wrigley et al, 2005
Mirabashir	Azerbaijan	1	?	?	a, ?, ?	Bekes et al 2008
Mirabashir 128	Azerbaijan	0	7*+8	5+10	c, u, d	Bekes et al 2008
Miras	Germany	2*	7+9	5+10	b, c, d	Waga, 1992; Kazman and Lein, 1996;
Miras	Kazakhstan	1	7+8	5+10	a, b, d	Absattarova, 2005;
Mirbashirskaya-128	Azerbaijan	null	7+9	2+10	c, c, e	Urazaliev,2003;
Mirich	Ukraine	null	7+9	5+10	c, c, d	Rabinovich et al, 2004;
Mirkhad	Ukraine	null	7+9	2+12	c, c, a	Rabinovich et al, 2004;
Mirleben	Ukraine	null/1	7+9	5+10	c/a, c, d	Ya, 1997; Rabinovich et al, 2004; Sobko and Sozinov, 1999;
Mironivska-napivintensivna	Ukraine	2*	7	5+10	b, a, d	Ya, 1997; Sobko and Sozinov, 1999;
Mironivska-rannostigla	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Mironovchanka	Ukraine	1	7+9	2+12	a, c, a	Rabinovich et al, 2001;
Mironovskaya-10	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;

Mironovskaya-11	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
Mironovskaya-19	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Mironovskaya-25	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Rabinovich et al, 2004;
Mironovskaya-264	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Rabinovich et al, 2000a; Rabinovich et al, 2004;
Mironovskaya-27	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2004;
Mironovskaya-28	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2004;
Mironovskaya-29	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Mironovskaya-3	Ukraine	2*	17+18	2+12	b, i, a	Rabinovich et al, 2001;
Mironovskaya-30	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2004;
Mironovskaya-31	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Mironovskaya-32	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Mironovskaya-33	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Mironovskaya-34	Ukraine	null	7+9	5+10	c, c, d	Rabinovich et al, 2004;

Mironovskaya-35	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
Mironovskaya-4	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Mironovskaya-40	Ukraine	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Ya, 1997; Sobko and Sozinov, 1999;
Mironovskaya-5	Ukraine	1	7+9	2+12	a, c, a	Rabinovich et al, 2001;
Mironovskaya-61	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2004;
Mironovskaya-62	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
Mironovskaya-63	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Mironovskaya-64	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
Mironovskaya-65	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
Mironovskaya-66	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2004;
Mironovskaya-67	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Mironovskaya-68	Ukraine	null	7+9	2+12	c, c, a	Rabinovich et al, 2004;
Mironovskaya-808	Ukraine	1	7+9/7+8	5+10	a, c/b, d	Morgunov et al, 1990; Waga, 1992; Ya, 1997; Rabinovich et al, 2000a; Rabinovich et al 2001

Mironovskaya-808-uluchshennaya	Ukraine	2*/1	7+9	5+10	b/a, c, d	Cerny, et al 1989;
Mironovskaya-901	Ukraine	2*/null	7+9	5+10	b/c, c, d	Rabinovich et al, 2004;
Mironovskaya-krupnozernaya	Ukraine	1	7+8	5+10	a, b, d	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;
Mironovskaya-ostistaya	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Rabinovich et al, 2004; Sobko and Sozinov, 1999;
Mironovskaya-poluintensivnaya	Ukraine	2*	7	5+10	b, a, d	Ya, 1997; Sobko and Sozinov, 1999;
Mironovskaya-rannespelaya	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2004;
Mironovskaya-yarovaya	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Mironovskaya-yubileinaya	Ukraine	2*/1	7+9	5+10	b/a, c, d	Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2004; Rabinovich et al 2001
Mirtos	Italy	null	7+9	2+12	c, c, a	Pogna et al, 1989; Anon. 1993d;
Mirzak-98	Turkey	null	7+8	5+10	c, b, d	Sanal et al, 2005
Miskle	Australia	2*	17+18/7+8	2+12	b, i/b, a	Cornish, 2005; Anon, 1993c;
Mission	U.K.	null	6+8	2+12	c, d, a	Branlard et al, 2003; Rogers et al, 1989;
Missoes	Brazil	2*	7+8	5+10	b, b, d	Vozquez et al, 2003

Mistral	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Mithras	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Mitre	Australia	2*	7*+8	2+12	b, u, a	Wrigley et al, 2005
Miyaginokomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
MJI//PAK3563/CHAP70/3/DERN	CIMMYT-15TH SAWSN	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
MJI/GLEN//TRT/3/B	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MJI/GLEN//TRT/3/BAU	CIMMYT-6TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Mladka	Czech Republic	null	7+9	2+12	c, c, a	Kochumadhaven et al, 1988;
MNCH/3*BCN	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MOCHIS T 88	CIMMYT-4TH HTWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Mochis-t-88	Mexico	2*	7+9	2+12	b, c, a	Rabinovich et al, 2000b;
Mocho	Spain	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Modoc	U.S.A.	null	20	-	c, e,	Anon, 1989; Vallega, 1988;

Mogul	Germany	null	7+9	5+10	c, c, d	Groger et al, 2005
Mohamed Ben Bachir	Algeria	null	13+16	-	c, f, -	Carillo et al, 2005;
Mohamed Ben Bachir (CItr-2087)	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Mohamed Ben Bachir (PI-352443)	Algeria	null	13+16	-	c, f, -	Carillo et al, 2005;
Mohamed-ben-bachir	Algeria	null	13+16	-	c, f,	Anon, 1989; Vallega, 1988;
Moisei-1	Romania	1	7+9	2+12	a, c, a	Popa et al, 2004
Moisson	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;
Mokoan	Australia	1	20	2+12	a, e, a	Cornish, 2005;
Moldau	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996; Sasek et al, 1997;
Moldova-83	Romania	1	7+9	5+10	a, c, d	Hagima et al, 1989;
Molen	South Africa	2*	7+9	2+12	b, c, a	Cornish, 2005;
Moleson	Chile	null	7+9	5+10	, c, d	Waga, 1992;
Molineux	Australia	1	7+8/7*+8	5+10	a, b/u, d	Anon, 1993c; Wrigley et al, 2005

Molla	Spain	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Molopo	South Africa	1	7+9	5+10	a, c, d	Cornish, 2005;
Momtchill	Turkey	2*	7+9	2+12	b, c, a	Sanal et al, 2005
MON/GEN//SARA	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MON/IMU//ALD/PVN	CIMMYT-16TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
MON/IMU//ALD/PVN	CIMMYT-8TH HRWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Mona	Czech Republic	2*	7+9	5+10	b, c, d	Sasek et al, 1997;
Monad	New Zealand	d	7+9/17+18	5+10	d, c/i, d	Griffin et al, 2001; Cornish, 2005
MONARCHA	CIMMYT-3RD FAWWYT	2*/1	7+9/7+8	2+12	b, c/b, a	Payne and Pena, 2006;
Monarcha	Mexico	2*	6+8	2+12	b, d, a	Rabinovich et al, 2000b;
Moncho	Brazil	2*	17+18	5+10	b, i, d	Cornish, 2005;
Mondego	Portugal	2*	7+9	2+12	b, c, a	Igrejas at al, 1999
Mondor	Canada	2*	7/?	2+12	b, a/v, a	Anon, 1998; Ng and Pogna, 1989; McIntosh et al, 1989; McIntosh et al, 1991;

Mondur	France	null	6+8	-	c, d,	Branlard and Le Blank, 1985;
Mongia	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Mongia-de-grao-escuro	Portugal	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Monika	Croatia	null	7+9	2+12	c, c, a	Horvat et al, 2002;
Monitor	U.K.	null	7	2+12	c, a, a	Branlard et al, 2003;
Monjovie	France	1	7+8	2+12	a, b, a	Branlard and Le Blank, 1985;
Monon	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Monopol	Canada	1	7+9	5+10	a, c, d	Bushuk, 2006;
Monopol	Germany	1	7+9/6+8	5+10	a, c/d, d	Ng and Pogna, 1989; Kazman and Lein, 1996; Anon, 1998; Rogers et al, 1989;
Monroe	U.S.A.	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Monstec	Spain	1	20	2+12	a, e, a	Rayfuse and Jones, 1993
Monsun	Austria	1	14+15	2+12	a, h, a	Groger et al, 2005
Montagnano	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;

Montana King	Canada	1	7+8	5+10	a, b, d	Anon, 1998;
Montferrier	France	null	6+8	-	c, d,	Branlard and Le Blank, 1985;
Montsec	Spain	1	20	2+12	a, e, a	Rayfuse and Jones, 1993;
MOR/TSH//KAUZ/3/YACO	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
MOR/VEE#5//DUCULA/3/DUCULA	CIMMYT-8TH HRWSN	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
MOR/VEE//CEP82141	CIMMYT-7TH HRWSN	null	17+18	2+12	c, i, a	Payne and Pena, 2006;
Morahi	New Zealand	2*	7/7+9	5+10	b, a/c, d	Griffin et al, 2001; Cornish, 2005
Morava	Yugoslavia	1/null	20/7	2+12/5+10	a/c, e/a, a/d	Vapa, 1989; Knezevic et al, 1993; Popa et al, 2004
Moray	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005; Anon, 1993c;
Morell	U.K.	1	17+18	5+10	a, i, d	Cornish, 2005;
Moro	U.S.A.	2*	7+8	2+12	b, b, a	Lookhart et al, 1993; Rayfuse and Jones, 1993;
Morocco	Morocco	2*	20	2+12	b, e, a	Cornish, 2005;
Morocco-182	Morocco	null	VIII.	-	c, y,	Vallega and Mello-Sampayo 1987;

Mos-4	Russia	1	7+9/7	2+12/5+10	a, c/a, a/d	Gregova et al, 2004;
Moskovskaya-21	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Bespalov, 1994;
Moskovskaya-35	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Bespalov, 1994;
Moskovskaya-642	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Moskovskaya-70	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Moskovskaya-nizkostebel'naya	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Moslavka	Croatia	null/1	6+8/7	2+12	c/a, d/a, a	Vapa, 1989;
Moti	India	null	7+8	2+12	c, b, a	Bhagwat and Bhatia, 1988;
Moulin	U.K.	null	17+18	2+12	c, i, a	Wei et al, 2000; Branlard et al, 2003;
Mourisco	Portugal	1	6+8	-	a, d,	Vallega and Mello-Sampayo 1987;
Mourisco-preto	Portugal	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;
Mourisco-preto-de-grao-escuro	Portugal	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Moystad	Norway	2*	6+8	2+12/5+10	b, d, a/d	Rabinovich et al, 2000b; Uhlen, 1990

Mriya-1	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Rabinovich et al, 2004;
Mriya-khersona	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997;
Mriya-odesskaya	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
MRL/BUC//LIRA	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
MRL/BUC//SERI	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
MRL/BUC//VEE#7	CIMMYT-4TH SAWYT	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
MRL/BUC/3/CNDR/ANA/ /CNDR/MUS/4/PRL/VEE#6	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Mtskhetskaya-1	Georgia	null	7+9	2+10	c, c, a	Urazaliev,2003;
Mukakomugi	Japan	1	7+8	4+12	a, b, c	Nakamura, 2000a;
Mulgara	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
MUNIA//CHEN/ALTAR 84	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MUNIA/ALTAR 84	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MUNIA/BAU	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

MUNIA/CHTO	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MUNIA/KAUZ	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Munk	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Sasek et al, 1997;
Munstertaler	Chile	1/null	7+8	2+12/5+10	a/c, b, a/d	Gregova et al, 2004;
Mura	Croatia	1	7+8	2+12	a, b, a	Vapa, 1989;
Murgia	Italy	null	13+16	-	c, f,	Vallega and Waines, 1987;
Mursa	Croatia	1	7+9	2+12	a, c, a	Vapa, 1989;
Musket	U.K.	1	7+8	5+10	a, b, d	Cornish, 2005;
Mustang	U.S.A.	2*	7+8/7	2+12	b, b/a, a	Graybosh, 1992;
Mutsubenkei	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Muzaffarnagar	India	null/2*	17+18	2+12	c/b, i, a	Cornish, 2005
Muzaffarnagar(1)	India	null	17+18	2+12	c, i, a	Cornish, 2005
Muzaffarnagar(2)	India	2*	17+18	2+12	b, i, a	Cornish, 2005

Mv-04-04	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005
Mv-05-04	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV05-06	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV05-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV05-08	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
Mv-06-04	Hungary	1	7+8	2+12	a, b, a	Bedo and Lang, 2005
MV06-07	Hungary	2*	13+16	5+10	b, f, d	Bekes et al 2008
MV06-08	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
Mv-07-03	Hungary	2*	7+8	5+10	b, b, d	Bedo and Lang, 2005
Mv-07-04	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV07-05	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV07-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV07-08	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008

Mv-08-03	Hungary	2*	13+16	2+12	b, f, a	Bedo and Lang, 2005
Mv-08-04	Hungary	2*	7+8	5+10	b, b, d	Bedo and Lang, 2005
MV08-06	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV08-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV08-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV08-08	Hungary	2*	7*+8	2+12/5+10	b, u, a/d	Bekes et al 2008
Mv-09-04	Hungary	2*	7+8	2+12	b, b, a	Galova et al, 2001
MV09-07	Hungary	1	13+16	5+10	a, f, a	Bekes et al 2008
MV09-08	Hungary	null	7*+9	5+10	c, c, d	Bekes et al 2008
Mv-10-04	Hungary	2*	7+8	2+12	b, b, a	Bedo and Lang, 2005
MV10-06	Hungary	null	6+8	5+10	c, d, d	Bekes et al 2008
MV10-07	Hungary	2*	7*+8	2+12	b, u, d	Bekes et al 2008
MV10-08	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008

MV107-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV108-07	Hungary	2*	7	5+10	b, a, d	Bekes et al 2008
MV109-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
Mv-11-04	Hungary	1	7+8	2+12	a, b, a	Bedo and Lang, 2005
MV11-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV11-08	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV111-07	Hungary	2*	7*+8	5+10	b, u, a	Bekes et al 2008
MV112-05	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV112-07	Hungary	2*	7*+8	2+12	b, u, d	Bekes et al 2008
MV113-07	Hungary	null	7*+8	5+10	c, u, d	Bekes et al 2008
MV114-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV115-07	Hungary	1/2*	7*+8	5+10	a/b, u, d	Bekes et al 2008
MV117-07	Hungary	1	7*+9	5+10	a, c, a	Bekes et al 2008

MV118-07	Hungary	null	7*+9	2+12/5+10	c, c, a/d	Bekes et al 2008
MV119-07	Hungary	2*	7*+8	2+12/5+10	b, u, a/d	Bekes et al 2008
MV120-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV-12-04	Hungary	2*	7+8	2+12	b, b, a	Bedo and Lang, 2005
MV12-06	Hungary	1	7*+9	5+10	a, c, d	Bekes et al 2008
MV12-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV12-08	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV121-07	Hungary	null	7*+9	5+10	c, c, d	Bekes et al 2008
MV122-07	Hungary	2*	7*+9	2+12/5+10	b, c, d	Bekes et al 2008
MV123-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV124-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV125-07	Hungary	1/2*	7*+9	5+10	a/b, c, d	Bekes et al 2008
MV126-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008

MV127-07	Hungary	null	7*+9	5+10	c, c, d	Bekes et al 2008
MV128-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV129-07	Hungary	null	7*+9	5+10	c, c, d	Bekes et al 2008
MV130-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
Mv-13-03	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005
Mv-13-04	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Mv-13-05	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV13-08	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV132-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV133-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV134-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV135-07	Hungary	1/2*	7*+8	5+10	a/b, u, d	Bekes et al 2008
MV136-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008

MV14-06	Hungary	null	7*+8	5+10	c, u, d	Bekes et al 2008
MV14-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV14-08	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
Mv-15-04	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV15-06	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV15-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV15-08	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV16-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV16-08	Hungary	1	13+16	2+12	a, f, d	Bekes et al 2008
Mv-17-04	Hungary	2*	7+8	5+10	b, b, d	Galova et al, 2001
MV17-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV17-08	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV18-05	Hungary	1	7*+9	5+10	a, c, d	Bekes et al 2008

MV18-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV18-08	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV19-05	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV19-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV19-08	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV20-06	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV20-07	Hungary	null	7*+8	5+10	c, u, d	Bekes et al 2008
MV20-08	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV204-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV205-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV206-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV207-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV208-07	Hungary	null	7*+8	5+10	c, u, d	Bekes et al 2008

MV209-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV210-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV21-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV21-08	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV213-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV214-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV215-07	Hungary	1	7*+9	5+10	a, c, a	Bekes et al 2008
MV216-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV217-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV218-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV219-07	Hungary	1/2*	7*+8	5+10	a/b, u, d	Bekes et al 2008
MV22-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV22-08	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008

MV221-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV222-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV223-07	Hungary	1	7*+9	5+10	a, c, d	Bekes et al 2008
MV225-07	Hungary	null	7*+9	5+10	c, c, d	Bekes et al 2008
MV227-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV228-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV230-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV23-06	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV23-07	Hungary	1/2*	7*+8	5+10	a/b, u, d	Bekes et al 2008
MV23-08	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV231-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV232-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV233-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008

MV235-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV236-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV24-07	Hungary	1/2*	7*+8	5+10	a/b, u, d	Bekes et al 2008
MV25-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV26-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV27-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV28-07	Hungary	1	7*+9	5+10	a, c, a	Bekes et al 2008
MV29-07	Hungary	2*/null	7*+9	2+12	b/c, c, a	Bekes et al 2008
MV30-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV304-07	Hungary	1	7*+9	5+10	a, c, a	Bekes et al 2008
MV305-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV306-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV307-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008

MV308-07	Hungary	2*	7*+8	2+12	b, u, a	Bekes et al 2008
MV309-07	Hungary	1	7*+9	2+12	a, c, d	Bekes et al 2008
MV310-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV311-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV312-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV313-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV314-07	Hungary	null	7*+8	5+10	c, u, d	Bekes et al 2008
MV315-07	Hungary	null	7*+9	5+10	c, c, d	Bekes et al 2008
MV316-07	Hungary	null	7*+8	5+10	c, u, a	Bekes et al 2008
MV318-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV319-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV320-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV321-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008

MV323-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV324-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV325-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV326-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV327-07	Hungary	1	7*+9	5+10	a, c, a	Bekes et al 2008
MV328-07	Hungary	2*	7*+9	2+12	b, c, a	Bekes et al 2008
MV329-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV330-07	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV33-07	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV331-07	Hungary	2*	7*+9	2+12	b, c, d	Bekes et al 2008
MV332-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV333-07	Hungary	1/2*	7*+9/7*+8	5+10	a/b, c/u, d	Bekes et al 2008
MV334-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008

MV335-07	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV35-07	Hungary	2*	7*+8	5+10	b, u, d	Bekes et al 2008
MV36-07	Hungary	2*	7*+8	2+12/5+10	b, u, a	Bekes et al 2008
MV409-03	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV411-03	Hungary	2*	6+8	5+10	b, d, d	Galova et al, 2001
MV-417-03	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Beres	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Csardas	Hungary	2*	7+9	2+12	b, c, a	Galova et al, 2001
MV-Dalma	Hungary	2*	7*+8	2+12	b, u, a	Bedo and Lang, 2005
MV-Emese	Hungary	2*	7+8	2+12	b, b, a	Bedo and Lang, 2005
MV-Garmada	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV-Gorsium	Hungary	1/2*	7*+9	5+10	a/b, c, d	Bekes et al 2008
MV-Hombar	Hungary	2*	13+16	2+12	b, f, a	Bedo and Lang, 2005

MV-Irma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Kemence	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005
MV-Kodmon	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Kolo	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV-Koma	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005
MV-Laura	Hungary	1	7*+8	5+10	a, u, d	Bekes et al 2008
MV-Lucia	Hungary	2*	7*+9	5+10	b, c, d	Bekes et al 2008
MV-Madrigal	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-magdalen	Hungary	2*	7+9	5+10/2+12	b, c, d/a	Bedo and Lang, 2005
MV-Magma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-magvas	Hungary	1	7+8/7+9	5+10	a, b/c, d	Bedo and Lang, 2005
MV-Mambo	Hungary	2*	7+8	2+12	b, b, a	Bedo and Lang, 2005
MV-Mariska	Hungary	2*	7+9	2+12	b, c, a	

MV-Marsall	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Martina	Hungary	2*	7+9	5+10	b, c, d	
MV-Matador	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Matild	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Matyo	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Mazurka	Hungary	2*	13+16	2+12	b, f, a	Bekes et al 2008
MV-Optima	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Palma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Palotas	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Panna	Hungary	2*	7*+8	5+10	b, u, d	Bedo and Lang, 2005
MV-Piroska	Hungary	2*	6+8/7+9	5+10	b, d/c, d	Bedo and Lang, 2005
MV-Regiment	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Suba	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005

MV-Summa	Hungary	1	7+9	2+12	a, c, a	Bedo and Lang, 2005
MV-Suveges	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005
MV-Szigma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Taltos	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Tamara	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005
MV-Toborzo	Hungary	2*/null	7*+9	2+12	b/c, c, a	Bekes et al 2008
MV-Vekni	Hungary	2*	7*+9	5+10	b, c, a	Bekes et al 2008
MV-Verbunkos	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005
MV-Vilma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
MV-Walzer	Hungary	2*	7+9	2+12	b, c, a	Bedo and Lang, 2005
MV-Zelma	Hungary	null	7*+8	5+10	c, u, d	Bekes et al 2008
MYNA/VUL//BUC/PVN	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MYNA/VUL//JUN	CIMMYT-4TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;

MYNA/VUL//TURACO/	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
MYNA/VUL//TURACO/3/TURACO	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
MYNA/VUL//TURACO/3/TURACO	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Myokokomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
N - 4914	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
N 9209-3	China	1	7	2+12	a, 7, a	Liu et al, 2005;
N10B/P14/ /SEL.P101/6539/3/MUS/4/MN62131/PVN	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
N-11	Bulgaria	1/null	7+9/20/6+8	5+10/2+12	a/c, c/e/d, d/a	Gregova et al, 1999;
N-301	Bulgaria	1	13+16/7+9	2+12/5+10	a, f/c, a/d	Gregova et al, 1999;
N-5749	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
N-59	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
N-75-11	Iran	2*	17+18	5+10	b, i, d	Bahraei et al, 2004;
N-75-15	Iran	2*	13+16	5+10	b, f, d	Bahraei et al, 2004;

N-75-16	Iran	null	7+9	5+10	c, c, d	Bahraei et al, 2004;
N-75-20	Iran	2*	b	2+12	b, b, a	Bahraei et al, 2004;
N-82-2-10	China	1	20	5+10	a, e, d	He et al, 1992;
N-82-2-18	China	1	20	5+10	a, e, d	He et al, 1992;
N-86-I-022	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992
N-86-I-090	U.S.A.	null	-	null	, , i	Anon, 1997b;
N-86-I-177	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992; Anon, 1993a;
N9209-3	China	null/1	7	2+12	c/a, 7, a	Liu et al 2008
N-94-I-7843	U.S.A.	null	-	null	, , i	Anon, 1997b;
N-94-I-7844	U.S.A.	null	-	null	, , i	Anon, 1997b;
N-94-I-7845	U.S.A.	null	-	null	, , i	Anon, 1997b;
N-94-I-7846	U.S.A.	null	-	null	, , i	Anon, 1997b;
Nabawa	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005;

Nabob	U.S.A.	1	7	2+12	a, a, a	Graybosh, 1992;
Nabuco	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
NAC/SERI	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
NAC/SERI	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
NAC/SERI	CIMMYT-29TH IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Nacozari-f-76	Mexico	2*	17+18	2+12	b, i, a	Rabinovich et al, 2000b;
Nada	Croatia	null	6+8/7	2+12	c, d/a, a	Vapa, 1989;
Nadezhda	Kazakhstan	1	7+8	5+10	a, b, d	Absattarova, 2005;
Nadezhnaya-45	Russia	1/null	7+9	5+10	a/c, c, d	Cerny, et al 1989;
Nagoroda-odesskaya	Ukraine	2*/null	7+8	5+10	b/c, b, d	Rabinovich et al, 2001;
Nainari-60	Mexico	null	13+16	2+12	c, f, a	Cornish, 2005
Nairi-131	Armenia	null	7+9	2+10	c, c, e	Urazaliev,2003;
Nairi-149	Armenia	null	7+9	2+10	c, c, e	Urazaliev,2003;

Nairi-290	Armenia	null	6+8	2+10/2+12	c, d, e/a	Urazaliev,2003;
Nairi-68	Armenia	2*	13+16	5+10/2+10	b, f, d/e	Urazaliev,2003;
Nakhodka-4	Ukraine	1	7+9/7+8	5+10	a, c/b, d	Ya, 1997; Sobko and Sozinov, 1999;
Nakhodka-odesskaya	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Nambiquara	Brazil	1	17+18	5+10	a, i, d	Vozquez et al, 2003
Nana	South Africa	1	17+18	5+10	a, i, d	Cornish, 2005;
Nanbukomugi	Japan	1	7+8/OE7+8	4+12	a, b/al, c	Nakamura, 2000a; Liu et al 2008
Nandu	Germany	1	7	5+10	a, a, d	Kazman and Lein, 1996; Groger et al, 1997;
Nandu	Litvania	1	7	5+10	a, a, d	Kuktaite" et al, 2000;
NANJING 82149/KAUZ	CIMMYT-4TH HRWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
NANJING 8343/KAUZ	CIMMYT-7TH HRWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
NANJING 8343/KAUZ	CIMMYT-7TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
NANJING 8401/3/GZ156/NAC//PSN/URES	CIMMYT-29TH IBWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;

NANJING 8508/3/CHUM18//JUP/BJY	CIMMYT-8TH HRWSN	null	7+8	5+10	c, b, d	Payne and Pena, 2006;
NANJING 8615/KAUZ//KAUZ	CIMMYT-7TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
NANJING 8646/KAUZ	CIMMYT-16TH SAWSN	null/2*	7+9/13+16	5+10	c/b, c/f, d	Payne and Pena, 2006;
NANJING 8646/KAUZ//BCN	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
NANJING8331/KAUZ	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Nanjing-8611	China	1	7+8	5+10	a, b, d	He et al, 1992;
Nanking-170	China	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
Naofen	Chile	null	17+18	2+12	c, i, a	Vozquez et al, 2003
Napayo	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Anon, 1998;
Napayo (RL 4238)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Naphal	Nepal	null	7+8	2+12/null/2.2+12	c, b, a/i/f	McIntosh et al, 1991; McIntosh et al, 1989; Anon, 1997b; Cornish, 2005
Napivkarlik-3	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Napo-63	Colombia	2*	7+9	2+12	b, c, a	Cornish, 2005;

NARBADA12	India	null	13+19	2+12	c, g, a	Ram, 2003;
NARBADA4	India	2*	17+18	2+12	b, i, a	Ram, 2003;
Narsingarh-111	India	null	20	-	c, e, -	Oak et al, 2004;
Naslednitsa	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000a;
Nautica	Netherlands	1	6+8	2+12	a, d, a	Kolster et al, 1993; Branlard and Le Blank, 1985;
Navarro-325	Spain	null	20	2+12	c, e, a	Rayfuse and Jones, 1993;
Navid	Iran	2*	7	5+10	b, a, d	Bahraei et al, 2004;
Nawab	Australia	1	20	2+12	a, e, a	Cornish, 2005
Naxos	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
Nayab-70	Pakistan	1	20	2+12	a, e, a	Cornish, 2005
Naz	Kazakhstan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Nazareno-strampelli	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
ND/VG9144/ /KAL/BB/3/YACO/4/CHIL	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

ND/VG9144/ /KAL/BB/3/YACO/4/CHIL	CIMMYT-4TH SAWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
ND/VG9144/ /KAL/BB/3/YACO/4/CHIL	CIMMYT-7TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
ND/VG9144/ /KAL/BB/3/YACO/4/CHIL	CIMMYT-7TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
ND-499	U.S.A.	2*	7+8	5+10	b, b, d	Anon, 1998;
ND-617	U.S.A.	2*	7+9	5+10	b, c, d	Khan et al, 1989
ND-622	U.S.A.	2*	7+9	5+10	b, c, d	Khan et al, 1989
ND-623	U.S.A.	2*	7+9	5+10	b, c, d	Khan et al, 1989
ND-624	U.S.A.	2*	7+9	5+10	b, c, d	Khan et al, 1989
ND-627	U.S.A.	2*	7+9	5+10	b, c, d	Khan et al, 1989
ND-628	U.S.A.	2*	7+8	5+10	b, b, d	Khan et al, 1989
ND-747	U.S.A.	1/2*	7+9	5+10	a/b, c, d	Khan et al, 1989
ND-PR-2369	U.S.A.	2*	7+8	5+10	b, b, d	Khan et al, 1989
NE01643	U.S.A.	2*	7+9	3+12	b, c, b	Shan et al, 2007;

NE-60	U.S.A.	null	7+8	5+10	c, b, d	Graybosh, 1992;
NE-83407	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992
NE99495	U.S.A.	1/2*	7+8	5+10	a/b, b, d	Shan et al, 2007;
Nearco	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Nebraska-14	U.S.A.	2*	7+8	5+10	b, b, d	Bhagwat and Bhatia, 1988;
Nebraska-5	U.S.A.	2*	7+8	5+10	b, b, d	Bhagwat and Bhatia, 1988;
Nebred	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Nectar	France	2*	7	5+10	b, a, d	Branlard et al, 2003;
Neeley	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Neepawa	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Bushuk, 1997; Anon, 1998;
Neepawa (BW 2)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Negrete	Spain	2*	20	4+12	b, e, c	Ruiz et al, 2002;
Negrete-altarejos	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;

Negrete-atalaya	Spain	1	6+8	4+12	a, d, c	Ruiz et al, 2002;
Negrete-canaveras	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Negrete-cuevas-velasco	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Negrete-de-priego	Spain	null	20	4+12	c, e, c	Ruiz et al, 2002;
Negrete-huelves	Spain	null	20	4+12	c, e, c	Ruiz et al, 2002;
Neimai-65-5	China	1	7+8	2+12	a, b, a	Wang et al, 1993;
Neixiang 188	China	1	7+9	5+10	c, c, d	Liu et al 2008
Neixiang-182	China	1	7+9	5+10	a, c, d	He et al, 1992;
Neixiang-36	China	1	7+8	2+12	a, b, a	Xue-Yong et al, 2002
Neixiang-5	China	null	7+8	2+12/2+11	c, b, a/q	He et al, 1992; Khan et al, 1989
Nekota	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Nell	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Nemares	Norway	2*	14+15	2+12	b, h, a	Johansson et al, 1993;

Nemares	Sweden	2*	14+15	2+12	b, h, a	Rabinovich et al, 2000b;
Nemchinovskaya-52	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Nemchinovskaya-86	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
NEMURA	CIMMYT-3RD FAWWYT	null	17+18	2+12	c, i, a	Payne and Pena, 2006;
Neosho	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
NESSER	CIMMYT-15TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
NESSER	CIMMYT-16TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
NESSER	CIMMYT-4TH SAWYT	2*	7+8/17+18	5+10	b, b/i, d	Payne and Pena, 2006;
NESSER	CIMMYT-6TH SAWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
Nettuno	Italy	null	7*+8	5+10	c, u, d	Pogna et al, 1989;
Neviano	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Newana	U.S.A.	2*	7+8	5+10	b, b, d	Lookhart et al, 1993; Rabinovich et al, 2000b;
Newthatch	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Rabinovich et al, 2000b;

Newton	U.S.A.	2*/1	7+9/7+8	5+10/4+12	b/a, c/b, d	Graybosh, 1992; Lookhart et al, 1993; Piergiovanni and Blanco, 1999;
Ng-14-4-110	India	null	20	2+12	c, e, a	Bhagwat and Bhatia, 1988;
NG8201/KAUZ	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
NG8319//SHA4/LIRA	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
NI146	India	null	17+18	2+12	c, i, a	Ram, 2003;
NI-146	India	2*	20	-	b, e, -	Oak et al, 2004;
Ni-4	India	null	20	5+10	c, e, d	Bhagwat and Bhatia, 1988;
NI5439	India	null	17+18	2+12	c, i, a	Ram, 2003;
Ni-5439	India	2*	7+8/17+18	2+12	b, b/i, a	Bhagwat and Bhatia, 1988; Rao et al, 2001;
NIAW34	India	1	7+9	5+10	a, d, d	Ram, 2003;
Nicam	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985;
Nichirinkomugi	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Nicoma	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;

Nidera Baguette 10	Argentina	null	6+8	5+10	c, d, d	Liu et al 2008
Nidera Baguette 20	Argentina	null	7+8	5+10	c, b, d	Liu et al 2008
Nika Kubani	Russia	2*/1	7+9	5+10	b/a, c, d	Ya, 1997; Rabinovich et al, 2000a; Rabinovich et al, 2000a
Niklas	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996; Rogers et al, 1989;
Niknejad	Iran	2*	7+9	5+10	b, c, d	Bahraei et al, 2004;
Nikoniya	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Nile	Lebanon	null	7+8	null	c, b, i	Anon, 1998;
Nil-sicco-g-3152	Germany	s	-	-	s, ,	McIntosh et al, 1998;
Nil-sicco-ipsr-1020006	Germany	r	-	-	r, ,	McIntosh et al, 1998;
Nil-thatcher-lr26-st-1-25	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
Nil-w-2691-sr13	Australia	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
Nil-w-2691-sr9b	Australia	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Nimbus	Germany	null	7	5+10	c, a, d	Rogers et al, 1989;

Nimrod	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Ning 9-159	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Ning 9247	China	null	7+8	4+12	c, b, c	Liu et al, 2005;
Ning 9548	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Ning 97-18	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Ning 97-41	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Ning 9766	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Ning 98084	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Ning 9940	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Ning 99415-8	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Ning 9952	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Ning-8231	China	2*	7+9	5+10	b, c, d	Anon, 1998;
Ning-8319	China	2*	17+18	5+10	b, i, d	He et al, 1992;

Ning-8736	China	2*	13+19	2+12	b, g, a	He et al, 1992;
NING8736/TUI	CIMMYT-8TH HRWSN	null	7+8	5+10	c, b, d	Payne and Pena, 2006;
NING8902/3/2*CHUM18//JUP/BJY	CIMMYT-8TH HRWSN	null	17+18/7+8	5+10	c, i/b, d	Payne and Pena, 2006;
NING9415	CIMMYT-8TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
Ningmai 7	China	2*	7+8	2+12	b, b, a	He et al, 2005;
Ningmai-3	China	1	6+8	2+12	a, d, a	He et al, 1992;
Ningmai-7	China	null	20	5+10	c, e, d	He et al, 1992;
Ningxia-216	China	2*	17+18	5+10	b, i, d	He et al, 1992;
Ningxia-86-1608	China	2*	17+18	5+10	b, i, d	He et al, 1992;
Ningxia-88-1608	China	2*	17+18	5+10	b, i, d	He et al, 1992;
Ninjing-7848	China	2*	7+8	2+12	b, b, a	Anon, 1998;
Niobrara	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Nishikazekomugi	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;

Nisu	Finland	2*	7+9	5+10	b, c, d	Branlard et al, 2003;
Nittany	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Niva	Russia	null	7+8	5+10	c, b, d	Morgunov et al, 1990;
Niva-2	Russia	2*	7+8/7+9	2+12	b, b/c, a	Rabinovich et al, 2001;
Nizija	Yugoslavia	2*/null	7+9	2+12	b/c, c, a	Vapa, 1989; Knezevic et al, 1993; Soltes-Rak, 1991; Dencic and Borojevich, 2001; Vapa and Sanic, 1988;
NL 459	Nepal	1	7+9	5+10	a, c, d	Schuster et al, 1997
NL 623	CIMMYT-31ST IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
No-778	China	null	7+8	2+12	c, b, a	He et al, 1992;
Nobel	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Noe	France	1	7	2+12	a, a, a	Gregova et al, 2004;
Noe	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Nongda 116	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Nongda 123	China	1	7+9	2+12	a, c, a	Liu et al, 2005;

Nongda 152	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Nongda 3197	China	null	7+8	3+12	c, b, b	Liu et al, 2005;
Nongda 3213	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Nongda 3214	China	null	6+8	2+12	c, d, a	Liu et al, 2005;
Nongda 3291	China	null	6+8	3+12	c, d, b	Liu et al, 2005;
Nongda 3395	China	null	6+8	3+12	c, d, b	Liu et al, 2005;
Nongda 92101	China	1	20	2+12	a, e, a	He et al, 2005;
Nongda 99-5009	China	null	7+8	2+12	c, u, a	Liu et al, 2005;
Nongda 99-6020	China	null	6+8	2+12	c, d, a	Liu et al, 2005;
Nongda-139	China	null	17+18/20	2+11/2+12	c, i/e, q/a	He et al, 1992; Wang et al, 1993; Nakamura, 2000b; Xue-Yong et al, 2002
Nongda-146	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Nongda-183	China	null	-	2.2+12	, , f	Nakamura, 2000b;
Nongda-311	China	null	7+9	2+12/5+10	c, c, a	Wang et al, 1993;

Nongyi-139	China	null	20	-	, e,	Nakamura, 2000b;
Nora	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Nora	Norway	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b;
Norak	U.S.A.	1	7+8	5+10	a, b, d	Cornish, 2005;
Noraliter	France	1	20	3+12	a, e, b	Branlard and Le Blank, 1985;
Norba	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Norda	Belgium	2*	7+8	2+12	b, b, a	Kolster et al, 1993;
Nordic	U.S.A.	null/2*	7+8/OE7+8*	2+12/5+10	c/b, b/al, a/d	Anon, 1998; Anon, 1998; Cornish, 2005
Nordic-sel-1	U.S.A.	2*	7+8	5+10	b, b, d	Anon, 1998;
Norin-1	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-10	Japan	1/null	7+8	2+12	a/c, b, a	Graybosh, 1992; Rabinovich et al, 2000a; Nakamura, 2000a;
Norin-100	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-101	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;

Norin-102	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-103	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-104	Japan	null	7+8	5+10	c, b, d	Nakamura, 2000a;
Norin-105	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-106	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-107	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
Norin-108	Japan	1	7+8	4+12	a, b, c	Nakamura, 2000a;
Norin-109	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-11	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Norin-110	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-111	Japan	2*	13+19	2+12	b, g, a	Nakamura, 2000a;
Norin-112	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-113	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;

Norin-114	Japan	null/1	7+9	2+12	c/a, c, a	Nakamura, 2000a; Cornish, 2005
Norin-115	Japan	1	6+8	4+12	a, d, c	Nakamura, 2000a;
Norin-116	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-117	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-118	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-119	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
Norin-12	Japan	null	20	2+12	c, e, a	Nakamura, 2000a;
Norin-120	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-121	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Norin-122	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-123	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-124	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-125	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;

Norin-126	Japan	null	20	2+12	c, e, a	Nakamura, 2000a;
Norin-127	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-128	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Norin-129	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-13	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-130	Japan	1	17+18	2+12	a, i, a	Nakamura, 2000a;
Norin-131	Japan	1	7+8	2+12	a, b, a	Nakamura, 2000a;
Norin-14	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-15	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-16	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Norin-17	Japan	1	7+9	4+12	a, c, c	Nakamura, 2000a;
Norin-18	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-19	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;

Norin-2	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-20	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-21	Japan	1	7+8	3+12	a, b, b	Nakamura, 2000a;
Norin-22	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-23	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-24	Japan	1	7+8	4+12	a, b, c	Nakamura, 2000a;
Norin-25	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-26	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-27	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-28	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-29	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-3	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-30	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;

Norin-31	Japan	1	7+9	4+12	a, c, c	Nakamura, 2000a;
Norin-32	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-33	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-34	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-35	Japan	2*	7+9	5+10	b, c, d	Nakamura, 2000a;
Norin-36	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-37	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-38	Japan	1	7+9	4+12	a, c, c	Nakamura, 2000a;
Norin-39	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-4	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-40	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-41	Japan	1	7+8	2.2+12	a, b, f	Nakamura, 2000a;
Norin-42	Japan	1	7+8	3+12	a, b, b	Nakamura, 2000a;

Norin-43	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-44	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-45	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-46	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-47	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-48	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-49	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-5	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-50	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-51	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-52	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-53	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-54	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;

Norin-55	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-56	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-57	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-58	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-59	Japan	1	7+8	2.2+12	a, b, f	Nakamura, 2000a;
Norin-6	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-60	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-61	Japan	null/2*	7+8	3+12/2.2+12	c/b, b, b/f	Anon, 1998; Nakamura, 2000a; Cornish, 2005
Norin-61-a	Japan	2*	7+9/7+8	3+12/2.2+12	b, c/b, b/f	Anon, 1998; Cornish, 2005
Norin-61-b	Japan	1	7+8	2+12	a, b, a	Cornish, 2005
Norin-62	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-63	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-64	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;

Norin-65	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-66	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-67	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-68	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-69	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Norin-7	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-70	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-71	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-72	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-73	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-74	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-75	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Norin-76	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;

Norin-77	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-78	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-79	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-8	Japan	1	7+8	4+12	a, b, c	Nakamura, 2000a;
Norin-80	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-81	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-82	Japan	1	7+8	4+12	a, b, c	Nakamura, 2000a;
Norin-83	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Norin-84	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Norin-85	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-86	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-87	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
Norin-88	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;

Norin-89	Japan	1	7+9	4+12	a, c, c	Nakamura, 2000a;
Norin-9	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-90	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-91	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
Norin-92	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-93	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Norin-94	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-95	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Norin-96	Japan	1	7+8	2.2+12	a, b, f	Nakamura, 2000a;
Norin-97	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Norin-98	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Norin-99	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Noris	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;

Norkin-cabure	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Norkin-churrinche	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002;
Norkin-irupe	Argentina	1	17+18/7*+8	5+10	a, i/u, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Norkin-lider	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002;
Norkin-pan	Argentina	1/2*	17+18	5+10	a/b, i, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Norkin-t-82	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Norman	U.K.	null	6+8	3+12	c, d, b	Cornish, 2005;
Noroeste	Mexico	2*	13+16	2+12	b, f, a	Cornish, 2005
Noroeste-f-66	Mexico	1	17+18	5+10	a, i, d	Rabinovich et al, 2001;
Noroit	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Norquay	Canada	1	f	5+10	a, f, d	Anon, 1998;
Norrna	Norway	2*	7+8	5+10	b, b, d	Uhlen, 1990;
Norrna	Norway	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b;

Norseman	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Norseman	U.S.A.	2*	7+8	5+10	b, b, d	Griffin, 1994; Anon, 1998; Griffin et al, 2001;
Norstar	Canada	1	7+8	5+10	a, b, d	Bushuk, 2006;
Norteno-m-67	Mexico	1	13+16	5+10	a, f, d	Anon, 1998;
Norwell	Canada	1	7*+8	5+10	a, u, d	Morgounov et al 2008
Norwin	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Norwin	U.S.A.	2*/1	7+9/7+8	5+10	b/a, c/b, d	Ng and Pogna, 1989; Anon, 1998;
Nougat	France	null	7+9	2+12	c, c, a	Branlard et al, 2003;
Nova-banatka	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Soltes-Rak, 1991; Kolster et al, 19881;
Nova-marijana	Croatia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Nova-prata	Brazil	null	7+8	2+12	c, b, a	Cornish, 2005;
Nova-zlatna	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989; Knezevic et al, 1993;
Novo	Portugal	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;

Novokrymka-204	Ukraine	1	7+9	5+10	a, c, d	Gregova et al, 2004;
Novokubanka	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Rabinovich et al, 2000a;
Novomichurinka	Ukraine	1	7+8	-	a, b,	Anon, 1989; Vallega, 1988;
Novosadska-100	Yugoslavia	null/1	21	2+12	c/a, j, a	Vapa, 1989; Vapa and Sanic, 1988; Vapa et al, 1988
Novosadska-32	Yugoslavia	null	7	5+10	c, a, d	Vapa, 1989;
Novosadska-brkulja	Yugoslavia	1	7+9	5+10	a, c, d	Vapa, 1989; Kolster et al, 19881; Vapa and Sanic, 1988;
Novosadska-crvena	Yugoslavia	1/2*	6+8	2+12	a/b, d, a	Vapa, 1989; Soltes-Rak, 1991; Kolster et al, 19881; Vapa and Sanic, 1988; Vapa et al, 1988
Novosadska-rana-1	Yugoslavia	null	7	2+12	c, a, a	Vapa, 1989; Dencic and Borojevic, 2001; Rabinovich et al, 2000a; Vapa and Sanic, 1988; Borojevic, 1990;
Novosadska-rana-2	Yugoslavia	null	7	2+12	c, a, a	Vapa, 1989; Dencic and Borojevic, 2001; Rabinovich et al, 2000a; Dencic, 2001; Borojevic, 1990;
Novosadska-rana-3	Yugoslavia	null	7	2+12	c, a, a	Vapa, 1989;
Novosadska-rana-4	Yugoslavia	null	7	2+12	c, a, a	Vapa, 1989;
Novosibirskaya-22	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001; Bespalov, 1994;
Novosibirskaya-67	Russia	1/2*	7+8	2+12	a/b, b, a	Morgunov et al, 1990; Bespalov, 1994;

Novosibirskaya-89	Russia	1	7+9/7+8	5+10/2+12	a, c/b, d/a	Rabinovich et al, 2001;
Novostepnyachka	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Morgunov et al, 1990; Rabinovich et al, 2001;
Novoukrainka-83	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Novoukrainka-84	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2000a
Novy-zivot	Czech Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997;
NP - 200	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
NP - 201	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
NP - 202	India	1	23 + 18	-	a ,p, -	Oak et al, 2004;
NP - 4	India	2*	17+18	5+10	b, i, d	Ram, 2003;
NP - 824	India	2*	7+9	5+10	b, d, d	Ram, 2003;
NP - 846	India	null	17+18	2+12	c, i, a	Ram, 2003;
NP - 852	India	2*	7+9	2+12	b, d, a	Ram, 2003;
NP - 876	India	2*	7+9	5+10	b, c, d	Bhagwat and Bhatia, 1988;

NS-3341	Yugoslavia	2*	7+8	5+10	b, b, d	Kolster et al, 19881;
NS-335	Yugoslavia	null	13+19	-	, g,	McIntosh et al, 1990; McIntosh et al, 1989; McIntosh et al, 1991;
NS-55-25	Yugoslavia	null	7	2+12	c, a, a	Dencic, 2001;
NS-62-38	Yugoslavia	2*	13+16	5+10	b, f, d	Knezevic et al, 1993
NS-Banacanka-1	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Knezevic et al, 1993;
NS-Banacanka-2	Yugoslavia	2*	7+9	5+10/2+12	b, c, d/a	Vapa, 1989; Knezevic et al, 1993; Knezevic et al, 1993
NS-Becejka	Yugoslavia	null	7+9	2+12	c, c, a	Vapa, 1989; Knezevic et al, 1993; Anon, 1998;
NS-Partizanka	Yugoslavia	2*/1	7+9	5+10	b/a, c, d	Vapa, 1989; Dencic and Borojevich, 2001; Knezevic et al, 1993; Kolster et al, 19881; Rabinovich et al, 2000a
NS-Poljana	Yugoslavia	2*	7+9	5+10	b, c, d	Knezevic et al, 1993;
NS-Posavka-1	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
NS-Posavka-2	Yugoslavia	2*	7+9	5+10/2+12	b, c, d/a	Vapa, 1989; Knezevic et al, 1993; Knezevic et al, 1993
NS-Sidanka	Yugoslavia	1	7+9	2+12	a, c, a	Vapa, 1989; Knezevic et al, 1993; Vapa and Sanic, 1988;
Nudel	U.S.A.	2*	7+9	null	b, c, i	Graybosh, 1992;

NuFrontier	U.S.A.	2*	6*+8*/20	5+10	b, w, d	Shan et al, 2007;
Nugaines	U.S.A.	1	7+9	3+12	a, c, b	Lookhart et al, 1993;
Nugget	U.S.A.	m	23+24	-	m, l,	Ng and Pogna, 1989;
Nugget-biotype-1	Canada	?	-	-	, m,	McIntosh et al, 1991; McIntosh et al, 1993;
NuHorizon	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Nuplains	U.S.A.	2*	20	5+10	b, e, d	Shan et al, 2007;
Nured	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Nuri-f-70	Mexico	1	17+18	5+10	a, i, d	Tahir et al, 1995; Rabinovich et al, 2000b;
Nurkent	Turkey	2*	7+9	5+10	b, c, d	Sanal et al, 2005
Nvezda	Yugoslavia	null	7+9/6+8	5+10	c, c/d, d	Vapa, 1989; Knezevic et al, 1993;
NW1012	India	2*	13+16	2+12	b, f, a	Ram, 2003;
NW1014	India	2*	7+8	2+12	b, b, a	Ram, 2003;
Nyabing	Australia	1/2*	20	5+10	a/b, e, d	Wrigley et al, 2005

Oartagnan	Portugal	2*	7	2+12	b, a, a	Igrejas et al, 1999
OASIS/5*BORL95	CIMMYT-31ST IBWSN	1	7+8	2+12	a, b, a	Payne and Pena, 2006;
OASIS/SKAUZ//4*BCN	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Oasis-f-86	Mexico	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b;
Obelisk	Netherlands	null	7+9/20/g	2+12	c, c/e/g, a	Kazman and Lein, 1996; Kolster et al, 1993; Waga, 1992;
Oberst	Germany	1	7+8	2+12	a, b, a	Rogers et al, 1989;
Obrii	Ukraine	2*	7+8	5+10	b, b, d	Ya, 1997; Rabinovich et al, 2000a; Stoeva et al, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2000a
Obskaya-14	Russia	2*	7+8/7+9	5+10	b, b/c, d	Rabinovich et al, 2001;
OCEPAR 16	CIMMYT-8TH HRWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
Ocepar-16	Brazil	1	17+18	5+10	a, i, d	Vozquez et al, 2003
Ocepar-21	Brazil	2*	13+16	2+12	b, f, a	Vozquez et al, 2003
Ocepar-22	Brazil	1	17+18	5+10	a, i, d	Vozquez et al, 2003
Oderzo	Italy	1	7*+8	5+10	a, u, d	Pogna et al, 1989;

Odeska-napivkarlikova	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2000a;
Odesskaya-117	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Odesskaya-12	Ukraine	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Odesskaya-120	Ukraine	1/2*	7+8	5+10	a/b, b, d	Rabinovich et al, 2001;
Odesskaya-130	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Rabinovich et al, 2001;
Odesskaya-132	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Odesskaya-133	Ukraine	1/2*	7+8	5+10	a/b, b, d	Ya, 1997; Sobko and Sozinov, 1999;
Odesskaya-16	Ukraine	1	7+9/7+8	5+10	a, c/b, d	Cerny, et al 1989; Rabinovich et al, 2000a;
Odesskaya-160	Ukraine	1/2*	7+8/7+9	5+10	a/b, b/c, d	Rabinovich et al, 2001;
Odesskaya-161	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Odesskaya-162	Ukraine	1/2*	7+8/7+9	5+10	a/b, b/c, d	Ya, 1997; Sobko and Sozinov, 1999;
Odesskaya-26	Ukraine	1	7+9	5+10	a, c, d	Morgunov et al, 1990;
Odesskaya-265	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Ya, 1997; Sobko and Sozinov, 1999;

Odesskaya-266	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Odesskaya-267	Ukraine	2*	7+8	5+10	b, b, d	Ya, 1997; Sobko and Sozinov, 1999;
Odesskaya-268	Ukraine	1/2*	7+8	5+10	a/b, b, d	Rabinovich et al, 2001;
Odesskaya-3	Ukraine	1/2*	7+9/7+8	5+10/2+12	a/b, c/b, d/a	Morgunov et al, 1990; Rabinovich et al, 2000a; Rabinovich et al, 2000a
Odesskaya-51	Ukraine	1/2*	7+8/7+9	5+10	a/b, b/c, d	Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2000a;
Odesskaya-66	Ukraine	1	7+8/7+9	5+10	a, b/c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2000a;
Odesskaya-75	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Odesskaya-83	Ukraine	1	7+8/7+9	5+10	a, b/c, d	Rabinovich et al, 2001;
Odesskaya-krasnokolosaya	Ukraine	2*	7+8	5+10	b, b, d	Morgunov et al, 1990; Stoeva et al, 1997; Rabinovich et al, 2001;
Odesskaya-ostistaya	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Odesskaya-polukarlikovaya	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2000a;
Odisseya	Ukraine	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2001;
ODK16/PDGA/ /AU/JTS179/3/NAC/4/OPATA/5/CNO79/PR L	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;

ODK16/PDGA/ /AU/JTS179/3/NAC/4/OPATA/5/CNO79/PR L	CIMMYT-29TH IBWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
ODK16/PDGA/ /AU/JTS179/3/NAC/4/OPATA/5/WEAVER	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ODK16/PDGA//AU/JT	CIMMYT-16TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
Ofanto	Italy	null	20	null	c, e, i	Anon, 1998;
Ofeliya	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Ya, 1997; Rabinovich et al, 2000a;
Ogallala	U.S.A.	2*	20	5+10	b, e, d	Shan et al, 2007;
Ohio	Germany	null	6+8	2+12	c, d, a	Kazman and Lein, 1996;
Ohridanka	Macedonia	null	7+9	2+12	c, c, a	Vapa, 1989;
OK00421	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Ok101	U.S.A.	2*	6*+8*	5+10	b, w, d	Shan et al, 2007;
Ok102	U.S.A.	2*	6*+8*	3+12	b, w, b	Shan et al, 2007;
Okapi	Germany	null	7	2+12	c, a, a	Kolster et al, 1993; Rogers et al, 1989; Waga, 1992;
Okfield	U.S.A.	2*	6*+8*	2+12/3+12	b, w, a/b	Shan et al, 2007;

Okhtirchanka	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Rabinovich et al, 2000a;
Oktava	Ukraine	null	6+8	5+10	c, d, d	Rabinovich et al, 2004;
Oktyabrina-70	Kazakhstan	2*	7*+8	5+10	b, u, d	Urazaliev,2003;
Okukomugi	Japan	null	7+8/7	2+12	c, b/a, a	Nakamura, 2000a; Cornish, 2005
OI 10	Estonia	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;
OI 11	Estonia	null/2*	7/7+9/13+16	2+12	c/b, a/c/f, a	Tohver et al, 2001, Tohner, 2007;
OI 13	Estonia	null	7+8	2+12	c, b, a	Tohver et al, 2001, Tohner, 2007;
OI 14	Estonia	2*/ null	7+8/6+8	2+12	b/c, b/d, a	Tohver et al, 2001, Tohner, 2007;
OI 15	Estonia	null	7+8/7+9	2+12	c, b/c, a	Tohver et al, 2001, Tohner, 2007;
OI 16	Estonia	2*	7	2+12	b, a, a	Tohver et al, 2001, Tohner, 2007;
OI 17	Estonia	null	7+8	2+12	c, b, a	Tohver et al, 2001, Tohner, 2007;
OI 19	Estonia	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
OI 2	Estonia	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;

OI 3	Estonia	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;
OI 4	Estonia	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;
OI 5	Estonia	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
OI 6	Estonia	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
OI 7	Estonia	null	7+9	5+10	c, c, d	Tohver et al, 2001, Tohner, 2007;
OI 8	Estonia	2*	7+8	5+10	b, b, d	Tohver et al, 2001, Tohner, 2007;
OI 9	Estonia	2*/1	20/7+9	5+10	b/a, e/c, d	Tohver et al, 2001, Tohner, 2007;
Olaeta Artillero	Argentina	2*	7+9	5+10	b, c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Olaf	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993; Anon, 1998; Rabinovich et al, 2000b;
Olgeurumil	Korea	2*	7+8	2.2+12	b, b, f	Hyun et al, 2001;
Olimpiya	Russia	2*	17+18/7+9	5+10	b, i/c, d	Wegrzun et al, 1998; Rabinovich et al, 2000a;
Olimpiya-2	Russia	2*	7+8	5+10	b, b, d	Ya, 1997; Rabinovich et al, 2000a;
Olinto	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;

Olma	Poland	null	7+9	5+10	c, c, d	Waga, 1992; Waga and Bietz, 1997;
Olviya	Ukraine	2*/1/null	7+9	5+10/2+12	b/a/c, c, d/a	Ya, 1997; Sobko and Sozinov, 1999; Stoeva et al, 1997;
Olympia	Finland	1	7+9	2+12	a, c, a	Cornish, 2005;
Olympic	Australia	1	20	5+10	a, e, d	Anon, 1998;
Olympic-mutant	Australia	1	n7*+8ll	5+10	a, ah, d	McIntosh et al, 1989; McIntosh et al, 1991;
Omaha	U.S.A.	1	6+8/7+9	5+10	a, d/c, d	Graybosh, 1992;
Omar	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Omasekomugi	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
OMBU I/ALAMO	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Omega-78	U.S.A.	1	7+8	5+10	a, b, d	Graybosh, 1992;
Omid	Iran	null	b	2+12	c, b, a	Bahraei et al, 2004;
Omskaya 12	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Bespalov, 1994;
Omskaya 17	Russia	1	7+9	2+12	a, c, a	Morgunov et al, 1990; Bespalov, 1994;

Omskaya 18	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Omskaya 19	Russia	1	7+9	2+12	a, c, a	Morgunov et al, 1990; Bespalov, 1994;
Omskaya 20	Russia	2*	7+8/7+9	2+12	b, b/c, a	Rabinovich et al, 2001;
Omskaya 21	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Omskaya 22	Russia	2*	7+8	2+12	b, b, a	Morgunov et al, 1990; Bespalov, 1994;
Omskaya 24	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Omskaya 26	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Omskaya 27	Russia	1	7*+9	2+12	a, c, d	Morgounov et al 2008
Omskaya 28	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Omskaya 29	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Omskaya 30	Russia	2*	7*+8	5+10	b, u, a	Morgounov et al 2008
Omskaya 32	Russia	null	7*+9	2+12	c, c, a	Morgounov et al 2008
Omskaya 33	Russia	2*	7*+8	5+10	b, u, a	Morgounov et al 2008

Omskaya 34	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Omskaya 35	Russia	2*	7*+8	2+12	b, u, d	Morgounov et al 2008
Omskaya 36	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Omskaya 37	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Omskaya 9	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Omskaya ozimaya	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Omskaya zernofurazhnaya	Russia	1/2*	7+9	2+12/5+10	a/b, c, a/d	Bespalov, 1994;
Onaga	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Oncativo-Inta	Argentina	2*	13+16	5+10	b, f, d	Gianibelli et al, 2002;
Onokhoiskaya-4	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Onyx	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985;
Oourado	Portugal	1	7+8	5+10	a, b, d	Igrejas at al, 1999
Opal	Canada	1	7+9	5+10	a, c, d	Bushuk, 2006;

Opal	Germany	1	14+15/7+9	2+12	a, h/c, a	Ng and Pogna, 1989; Anon, 1998; Rabinovich et al, 2000b;
Opala	Chile	2*	13+16	5+10	b, f, d	Vozquez et al, 2003
OPATA M 85	CIMMYT-4TH HRWYT	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
Opata	Mexico	2*	13+16	2+12	c, f, a	Liu et al 2008
OPATA/BOW*2//BUC/MOR	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
OPATA/BOW*2//BUC/MOR	CIMMYT-4TH SAWYT	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
OPATA/BOW//BAU/3/OPATA/BOW	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
OPATA/BOW//PSN/BOW	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
OPATA/KILL	CIMMYT-4TH SAWYT	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
OPATA/KILL	CIMMYT-8TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
OPATA/MANGO	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
OPATA/SHWA//BCN	CIMMYT-15TH SAWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
Opata-m-85	Mexico	2*	13+16	2+12	b, f, a	Rabinovich et al, 2000b;

Open	France	1	17+18	2+12	a, i, a	Branlard et al, 2003;
Oplenka	Yugoslavia	2*	14+15	5+10	b, h, d	Vapa, 1989;
Optimus	Austria	1	7+8	2+12	a, b, a	Groger et al, 1997;
Or-1	Brazil	2*	7+9	2+12	b, c, a	Vozquez et al, 2003
OR791432/GEN//BOW/NKT	CIMMYT-31ST IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
OR791432/VEE#3.2	CIMMYT-14TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
OR791432/VEE#3.2	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Orasanka	Yugoslavia	2*	14+15	5+10	b, h, d	Vapa, 1989; Knezevic et al, 1993; Vapa et al, 1988
Orca	Netherlands	1	7+9/7	2+12	a, c/a, a	Anon, 1998; Branlard et al, 2003;
Ordynskaya	Russia	1/2*	7+9	5+10/2+12	a/b, c, d/a	Rabinovich et al, 2001;
Orepi	France	1	7	4+12	a, a, c	Branlard and Le Blank, 1985; Branlard et al, 2003;
Orestis	Germany	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
ORIGMA	CIMMYT-3RD FAWWYT	2*	7	5+10	b, a, d	Payne and Pena, 2006;

Origma	Mexico	2*/null	7+9/7	5+10	b/c, c/a, d	Rabinovich et al, 2000b;
Orione	Italy	null	7+9	5+10	c, c, d	Pogna et al, 1989;
ORL91256	CIMMYT-8TH HRWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
ORL92141	CIMMYT-8TH HRWSN	null	17+18	5+10	c, i, d	Payne and Pena, 2006;
ORL9285	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Orlandi	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Oro Blanco	U.S.A.	1	7+8/20	5+10	a, b/e, d	Shan et al, 2007;
Orofen	Chile	null	7*+8	2+12	c, u, a	He et al, 1992;
Oroua	New Zealand	2*	6+8	5+10	b, d, d	Griffin, 1994; Griffin et al, 2001;
Orovcanka	Macedonia	null	7+9	5+10	c, c, d	Vapa, 1989;
Orsini	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Orso	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Orta	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;

Ortler	Germany	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Osage	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992; Lookhart et al, 1993;
Osjecanka	Croatia	1	7+9	2+12	a, c, a	Vapa, 1989;
Osjecka-2	Croatia	1	7+9	2+12	a, c, a	Vapa, 1989;
Osjecka-20	Croatia	null	7+8/7+9/7	2+12	c, b/c/a, a	Vapa, 1989;
Oslo	Canada	1	7+8	2+12	a, b, a	Ng and Pogna, 1989; Lookhart et al, 1993; Anon, 1998; Rabinovich et al, 2000b;
Osprey	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005; Anon, 1993c;
Os-tena	Croatia	1	7+9	5+10	a, c, d	Vapa, 1989; Knezevic et al, 1993; Vapa et al, 1988
Ostka-czerwona-lopuska	Poland	1/null	7+8/17+18/6+8	2+12/5+10	a/c, b/l/d, a/d	Gregova et al, 2004;
Ostka-skomorowska	Poland	null	7	2+12	c, a, a	Rayfuse and Jones, 1993;
Otane	New Zealand	2*	7+8	2+12	b, b, a	Griffin, 1994; Griffin et al, 2001;
Otechestvennaya	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Othalom	Hungary	2*	7+9	5+10	b, c, d	Anon, 2001;

Otis	U.S.A.	1	6/7+8	5+10	a, an/b, d	Anon, 2006;
Otrada	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Rabinovich et al, 2000a;
Ottawa	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Otto	Litvania	2*	6+8	2+12	b, d, a	Tohver et al, 2001, Tohner, 2007;
OTUS	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
OTUS	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
OTUS	CIMMYT-31ST IBWSN	2*	7+9	5+10/2+12	b, c, d/a	Payne and Pena, 2006;
Oubaard	South Africa	2*	7+8	2+12	b, b, a	Cornish, 2005;
Oued Zenati	Algeria	1	6+8/7+8	-	a, d/b, -	Carillo et al, 2005;
Oued Zenati (PI-352410)	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Oued Zenati 368	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Ouest-desprez	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Ouyen	Australia	2*	7+8/7*+8	2+12	b, b/u, a	Anon, 1998; Wrigley et al, 2005

Overley	U.S.A.	1	17+18	5+10	a, i, d	Shan et al, 2007;
Owens	Canada	2*	20	2+12	b, e, a	Bushuk, 2006;
Owens	U.S.A.	2*/null	7+8/13+16	2+12	b/c, b/f, a	McIntosh et al, 1991; Anon, 1998; Ng and Pogna, 1989; Rabinovich et al, 2000b;
Owlet	Australia	null	7+8	2+12	c, b, a	Cornish, 2005; Anon, 1993c;
Oxley	Australia	2*	7+8/7*+8	2+12/4+12	b, b/u, a/c	Anon, 1993c; Wrigley et al, 2005
Ozoda	Tajikistan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Pacer	U.K.	null	7+9	2+12	c, c, a	Cornish, 2005;
Pacific	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
Pactole	France	null	7+8	2+12	c, b, a	Branlard et al, 2003;
Pades	Romania	1	7+9	5+10	a, c, d	Popa et al, 2004
Pageant	U.K.	null	7+8	2+12	c, b, a	Cornish, 2005;
Pagode	Netherlands	null	7+9	2+12	c, c, a	Kolster et al, 1993; Kazman and Lein, 1996;
Paha	U.S.A.	2*	6	2+12	b, an, a	Rayfuse and Jones, 1993;

Pakistan-81	Pakistan	1	7+9	5+10	a, c, d	Tahir et al, 1995;
Palala	U.S.A.	1	6+8	5+10	a, d, d	Cornish, 2005;
Palandoken-97	Turkey	1	17+18	5+10	a, i, d	Sanal et al, 2005
Palata	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Palermo	Netherlands	1	7+8	5+10	a, b, d	Kazman and Lein, 1996;
Palestine	Israel	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;
Palma	Hungary	2*	7+9	5+10	b, c, d	Bedo and Lang, 2005
Palmiet	South Africa	2*	13+16	5+10	b, f, d	Cornish, 2005;
Palur	Germany	null	7+9	-	, c,	Waga, 1992;
Pampa-Inta	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Pamyat Ruba	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Pamyat-47	Kazakhstan	2*	17+18	5+10	b, i, d	Urazaliev,2003;
Pamyati-fedina	Russia	1	7+9	5+10	a, c, d	Ya, 1997;

Panda	Brazil	2*	7+9	5+10	b, c, d	Sanal et al, 2005
Panda	Poland	null	-	-	-	Waga, 1992;
Pandas	Italy	1	7+9	2+12	a, c, a	Pogna et al, 1989; Anon. 1993d; Branlard et al, 2003;
Pane-247	Spain	null	7+8	2+12	c, b, a	Cornish, 2005;
Pankul-inia	Chile	null	-	-	Glu-D1a, ,	Zuniga et al, 2004
Panna	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Panonija	Yugoslavia	null	7+9	5+10	c, c, d	Dencic and Borojevich, 2001;
Panu	Finland	2*/null	20/7	2+12/5+10	b/c, e/a, a/d	Sontang et al, 1986
PAPAGO M 86	CIMMYT-14TH SAWSN	2*	17+18/7+9	2+12	b, i/c, a	Payne and Pena, 2006;
PARA2/ /JUP/BJY/3/VEE/JUN/4/2*KAUZ	CIMMYT-30TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
PARA2/ /JUP/BJY/3/VEERY#5.4/JUN/4/PGO	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PARA2/ /JUP/BJY/3/VEERY#5.4/JUN/4/TUI	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Parbhani-51	India	2*	7+9	2+12	b, c, a	Das et al, 2001;

Pardalote	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
Pari-73	Pakistan	2*	17+18	5+10	b, i, d	Tahir et al, 1995;
Park	Canada	1	7+9	5+10	a, c, d	Ng and Pogna, 1989; Bushuk, 1997; Anon, 1998;
Parker	U.S.A.	2*	7+8/7+9	2+12	b, b/c, a	Graybosh, 1992;
Parker-76	U.S.A.	null	7+8	2+12	c, b, a	Graybosh, 1992;
Park-selection	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
Partizanka	Yugoslavia	2*/1	7+9	5+10	b/a, c, d	Vapa, 1989; Dencic and Borojevich, 2001; Knezevic et al, 1993; Kolster et al, 19881; Rabinovich et al, 2000a
Partizanka-niska	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Stoeva et al, 1997;
PARUS	CIMMYT-14TH SAWSN	2*	7+9	2+12/5+10	b, c, a/d	Payne and Pena, 2006;
PARUS	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Parus	Ukraine	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;
PARUS//BOW/NKT	CIMMYT-31ST IBWSN	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
Parvati	India	2*	7+8	2+12	b, b, a	Bhagwat and Bhatia, 1988;

Pasban-90	Pakistan	1	13+16	5+10	a, f, d	Tahir et al, 1995;
Pasqua	Canada	2*	7+9	5+10	b, c, d	Bushuk, 1997; Anon, 1998;
Pasqua (BW 114)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Passarinho	France	null	6+8	2+12	c, d, a	Igrejas at al, 1999
Pastiche	U.K.	null	7+8	4+12	c, b, c	Kazman and Lein, 1996;
Pastor	Mexico	1	17+18	5+10	a, i, d	Cavanagh, 2005
PASTOR*2/OPATA	CIMMYT-14TH SAWSN	1/2*	17+18/13+16	5+10	a/b, i/f, d	Payne and Pena, 2006;
PASTOR*2/OPATA	CIMMYT-16TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PASTOR*2/OPATA	CIMMYT-16TH SAWSN	1	17+18/13+16	5+10/2+12	a, i/f, d/a	Payne and Pena, 2006;
PASTOR*2/OPATA	CIMMYT-6TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
PASTOR/OPATA	CIMMYT-14TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
PASTOR/OPATA	CIMMYT-4TH SAWYT	2*	13+16	5+10	b, f, d	Payne and Pena, 2006;
PAT10/ALD/ /PAT72300/3/PVN/4/BOW	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

PAT10/ALD/ /PAT72300/3/PVN/4/URES/5/PFAU	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
PAT10/ALD//PAT723	CIMMYT-16TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
PAT10/ALD//PAT72300/3/PVN/4	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PAT24/ALD//DOVE/BUC	CIMMYT-7TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Paterson	Australia	null	7	3+12	c, a, b	Cornish, 2005
Pato	Argentina	1	7+8	5+10	a, b, d	Cornish, 2005;
Paulus	Austria	null	7+9	5+10	c, c, d	Kazman and Lein, 2005
Pavlodarskaya-93	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Pavlovka	Russia	2*/null	7+8/7+9	5+10/2+12	b/c, b/c, d/a	Ya, 1997; Rabinovich et al, 2000a;
Pavon	Mexico	2*	17+18	5+10	c, i, d	Liu et al 2008
Pavon-f-76	Mexico	2*/1	17+18	5+10	b/a, i, d	Tahir et al, 1995; Rabinovich et al, 2000b; Cornish, 2005
Pawnee	U.S.A.	1/2*	7+8	2+12	a/b, b, a	Graybosh, 1992;
Payne	U.S.A.	2*	7+9	3+12	b, c, b	Lookhart et al, 1993;

PBW 299	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PBW120/ATTILA//ATTILA	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PBW138	India	null	13+19	2+12	c, g, a	Ram, 2003;
PBW-138	India	2*	13+19	2+12	b, g, a	Das et al, 2001;
PBW154	India	null	7+8	2+12	c, b, a	Ram, 2003;
PBW-154	India	2*	7+8	2+12	b, b, a	Das et al, 2001;
PBW175	India	2*	7+8	2+12	b, b, a	Ram, 2003;
PBW-175	India	2*	7+8	2+12	b, b, a	Das et al, 2001;
PBW222	India	1	7+8	2+12	a, b, a	Ram, 2003;
PBW226	India	2*	7+8	2+12	b, b, a	Ram, 2003;
PBW299	India	2*	7+9	5+10	b, d, d	Ram, 2003;
PBW-299	India	2*	17+18	5+10	b, i, d	Das et al, 2001;
PBW-34	India	null	20	-	c, e, -	Oak et al, 2004;

PBW343	CIMMYT-30TH IBWSN	1	7	5+10	a, a, d	Payne and Pena, 2006;
PBW343	India	1	7	5+10	a, a, d	Ram, 2003;
PBW-343	India	1	7/7+9	5+10	a, a/c, d	Das et al, 2001; Rao et al, 2001;
PBW373	India	1	7	5+10	a, a, d	Ram, 2003;
PBW-373	India	1	7	5+10	a, a, d	Das et al, 2001;
PBW396	India	1	7+9	5+10	a, d, d	Ram, 2003;
PBW-3963	India	null	7+9	2+12	c, c, a	Das et al, 2001;
PBW443	India	2*	7+9	5+10	b, d, d	Ram, 2003;
PBW57	India	null	7+9	2+12	c, d, a	Ram, 2003;
PBW65	India	2*	17+18	2+12	b, i, a	Ram, 2003;
PCD-183	China	1	20	2+12	a, e, a	Wang et al, 1993;
PD-1	U.S.A.	1	6+8	2+12	a, d, a	Graybosh, 1992;
PDW-215	India	null	20	-	c, e, -	Oak et al, 2004;

PDW-233	India	null	7 + 8	-	c, b, -	Oak et al, 2004;
PEG//HD2206/HORK	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Pegaso	Italy	null	7+9	5+10	c, c, d	Pogna et al, 1989; Anon. 1993d;
Pegassos	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Pegasus	New Zealand	2*	7+9	5+10	b, c, d	Griffin, 1994; Griffin et al, 2001;
Pehlivan	Turkey	2*	7+9	2+12	b, c, a	Sanal et al, 2005
Pelagonija	Macedonia	null	7	2+12	c, a, a	Vapa, 1989;
Pelissier	Algeria	null	14+15	-	c, h, -	Carillo et al, 2005;
Pelissier	Algeria	null	14+15/6+8	null	c, h/d, i	Anon, 1989; Vallega, 1988; Ng and Pogna, 1989; Anon, 1998;
Pelissier (Cltr-2086)	Algeria	null	6+8	-	c, d, -	Carillo et al, 2005;
Pelissier BD 14	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Pelissier de Face (Cltr-6713)	Algeria	null	14+15	-	c, h, -	Carillo et al, 2005;
PELOTAS-ARTHUR/H567.71//TUI	CIMMYT-15TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;

Pelsart	Australia	1	7+8/7*+8	2+12	a, b/u, a	Anon, 1998; Wrigley et al, 2005
Pembina	Canada	2*	7+9	5+10	b, c, d	Ng and Pogna, 1989; Bushuk, 1997; Anon, 1998;
Penjamo-t-62	Mexico	null	7+8	2+12	c, b, a	Rabinovich et al, 2000b;
Pennoll	U.S.A.	1/2*	7+9	2+12	a/b, c, a	Graybosh, 1992;
Pepital	Netherlands	null	6+8	5+10	c, d, d	Kazman and Lein, 1996; Branlard et al, 2003;
Percy	Canada	null	6+8	5+10	c, d, d	Anon, 1998;
Percy (awnless)	Canada	null	6+8	5+10	c, d, d	Bushuk, 2006;
Percy (bearded)	Canada	1	6+8	2+10	a, d, e	Bushuk, 2006;
Percy-bearded	Canada	1/null	6+8/14+15	5+10	a/c, d/h, u/d	Anon, 1998;
Perenjori	Australia	2*	17+18	2+12/4+12	b, i, a/c	Rabinovich et al, 2001;
Peresvet	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Pergamino Gaboto	Brazil	null	7+8/7+9	5+10	c, b/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Perlo	Austria	2*	7+9	5+10	b, c, d	Kazman and Lein, 1996; Groger et al, 1997; Anon, 1998;

Perlo	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Pernel	France	2*/1	7	2+12/5+10	b/a, a, a/d	Griffin et al, 2001; Bonjean et al, 2001; Branlard et al, 2003;
Perouse	Australia	2*	7+8/7*+8	2+12	b, b/u, a	Anon, 1993c; Wrigley et al, 2005
Petit-rojo	Mexico	2*	13+16	2+12	b, f, a	Cornish, 2005
Petit-rouge	France	2*	13+16	2+12	b, f, a	Cornish, 2005;
Petrel	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Petrie	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
PF70354/ALD/ /BOW/3/NG8319/4/AMSEL	CIMMYT-7TH HRWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
PF70354/BOW//WUH3	CIMMYT-8TH HRWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
PF70402/3/KVZ/GV/ /KA/EMEK 132/4/PF70402/ALD/ /PAT72	CIMMYT-7TH HRWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
PF70402/ALD/ /PAT72160/ALD/3/PEW	CIMMYT-8TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
PF74354/ /LD/ALD/4/2*BR12*2/3/JUP/ /PAR214*6/FB6631	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
PF-87949	Brazil	1	7+9	5+10	a, c, d	Schuster et al, 1997

PF-87950	Brazil	null	7+9	2+12	c, c, a	Schuster et al, 1997
PF-89481	Brazil	1	7+8	5+10	a, b, d	Schuster et al, 1997
PF-89490	Brazil	null	7+9	2+12	c, c, a	Schuster et al, 1997
PFAU//ALD/PVN/3/MYNA/VUL	CIMMYT-14TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
PFAU/BOW//VEE#9	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PFAU/VEE#5	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PFAU/VEE#5//BCN	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PFAU/VEE#9	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
PFAU/VEE#9	CIMMYT-4TH SAWYT	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
PFAU/VEE#9//URES	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PFAU/WEAVER	CIMMYT-31ST IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PFAU/WEAVER	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PGO//K134(60)/VEE	CIMMYT-4TH HTWYT	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;

PGO/SARA	CIMMYT-15TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
PGO/SERI	CIMMYT-4TH HRWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PGO/SERI//BAU	CIMMYT-8TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
PGO/SERI//BAU	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
PH 1521	China	1	14+15	5+10	a, h, d	Liu et al, 2005;
PH 82-2-2	China	1	14+15	2+12	a, h, a	Liu et al, 2005;
PH 85-1-1	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
PH 85-16	China	1	14+15	2+12	a, h, a	Liu et al, 2005;
PI/FUNO*2//VLD/3/C0723595	CIMMYT-3RD FAWWYT	1	7+8	2+12	a, b, a	Payne and Pena, 2006;
PI-167512	Turkey	null	20	-	c, e,	Vallega, 1988; Anon, 1989;
PI-167562	Turkey	null	20	-	c, e,	Vallega, 1988; Anon, 1989;
PI-195089	Ethiopia	V	7+8	-	(V), b,	Vallega, 1988; Anon, 1989;
PI-330540	U.K.	2*	17+18	2+12	b, i, a	Rayfuse and Jones, 1993;

PI-355505	Germany	null	II.	-	, n,	McIntosh et al, 1990; McIntosh et al, 1989; McIntosh et al, 1991;
PI-436213	Chile	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
PI-436254	Chile	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
PI-436257	Chile	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
PI-436283	Chile	null	7	2+12	c, a, a	Rayfuse and Jones, 1993;
PI-436327	Chile	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
PI-436451	Chile	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
PI-436459	Chile	1	20	2+12	a, e, a	Rayfuse and Jones, 1993;
PI-436477	Chile	1	20	2+12	a, e, a	Rayfuse and Jones, 1993;
PI-436480	Chile	1	20	2+12	a, e, a	Rayfuse and Jones, 1993;
PI-470735	Turkey	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
PI-57544	Ukraine	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988;
PI-57664	Paraguay	2*	7+15	-	b, z,	Anon, 1989; Vallega, 1988;

PI-58548	China	null	7+8	2+12	c, b, a	Anon, 1998;
PI-58793	Ethiopia	2**	20	-	o, e,	Anon, 1989; Vallega, 1988;
PI-61109	Russia	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
PI-61114	Iran	2**	7+8	-	o, b,	Anon, 1989; Vallega, 1988;
PI-61189	Russia	n/o	7+8	-	n/o, b,	McIntosh et al, 1993; Anon, 1989; Vallega, 1988; McIntosh et al, 1991; McIntosh et al, 1988;
PI-61878	Morocco	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
PI-73377	Azerbaijan	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
PI-74830	China	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
PI-79900	China	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
PI-94633	Morocco	null	V.	-	, q,	McIntosh et al, 1990; McIntosh et al, 1991; McIntosh et al, 1989;
PI-94640	Iran	null	I.	-	, m,	McIntosh et al, 1990; McIntosh et al, 1991; McIntosh et al, 1989;
PI-94665	Ethiopia	null	23+28	-	, p,	McIntosh et al, 1990;
PI-94669	Russia	null	V.	-	, r,	McIntosh et al, 1990; McIntosh et al, 1993;

PI-94683	Armenia	5+12	-	-	h, ,	McIntosh et al, 1990; McIntosh et al, 1989; McIntosh et al, 1991;
PI-94698	Tunesia	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Pia	France	1	7	3+12	a, a, b	Branlard and Le Blank, 1985;
PIA-P-183-98	Chile	2*	7+9	2+12	b, c, a	Rayfuse and Jones, 1993
Piceno	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
PICUS/TODY	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
PIFED/DERN	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PIK/OPATA	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PIK/OPATA	CIMMYT-4TH SAWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Pika	Finland	2*	7+8	2+12	b, b, a	Rabinovich et al, 2000b;
Pika-ii	Finland	null	7+9	2+12	c, c, a	Cornish, 2005;
Pike	U.S.A.	1	7+8	5+10	a, b, d	Graybosh, 1992; Lookhart et al, 1993;
Piko	Germany	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;

Pilote	France	null	6+8	5+10	c, d, d	Branlard and Le Blank, 1985;
Pindar	Australia	1	20	5+10	a, e, d	Cornish, 2005
Pingyuan-50	China	null	7+8	2+12	c, b, a	He et al, 1992;
Pinnacle	Australia	1	20	5+10	a, e, d	Cornish, 2005;
Pinzon	Portugal	2*	7+8	5+10	b, b, d	Igrejas at al, 1999
PION/TUI	CIMMYT-14TH SAWSN	1	7+9/7+8	5+10	a, c/b, d	Payne and Pena, 2006;
Pioneer	Canada	2*/null	7+9	2+12	b/c, c, a	Anon, 1998;
Pioneer-2137	U.S.A.	2*	7+8	5+10	b, b, d	Pike and MacRitchie, 2004;
Pioneer-2369	U.S.A.	2*	7+8	5+10	b, b, d	Lookhart et al, 1993;
Pioneer-2550	U.S.A.	2*	7+8/6+8	2+12	b, b/d, a	Lookhart et al, 1993;
Pioneer-pl-145	U.S.A.	2*	7/17+18	2+12/5+10	b, a/i, a/d	Lookhart et al, 1993;
Pioneer-s-76	U.S.A.	2*	7+8/7+9	2+12	b, b/c, a	Lookhart et al, 1993;
Pioneer-s-78	U.S.A.	2*	7+8/7+9	2+12	b, b/c, a	Lookhart et al, 1993;

Pionero-Inta	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
PIOPIO.4	CIMMYT-3RD FAWWYT	1	7+8	5+10	a, b, d	Payne and Pena, 2006;
Pippo	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Pirapo	Paraguay	2*	7+9	5+10	b, c, d	Dubcovsky et al, 2004
Pireneo	Austria	1	7+9	5+10	a, c, d	Groger et al, 2005
Pirsabak-85	Pakistan	1	7+9	5+10	a, c, d	Tahir et al, 1995;
Pirsabak-91	Pakistan	1	7+9	5+10	a, c, d	Tahir et al, 1995;
Pirshakhim	Azerbaijan	2*	17+18	5+12	b, i, h	Urazaliev,2003;
Pishtaz	Iran	2*	b	2+12	b, b, a	Bahraei et al, 2004;
Pissilocal	India	2*	17+18	2+12	b, i, a	Ram, 2003;
Pistou	France	null	7+9	2+12	c, c, a	Branlard et al, 2003;
Pitic 62	Australia	1	7+8	2+12	a, b, a	Cornish, 2007;
Pitic-62	Mexico	1	7+8	2+12	a, b, a	Anon, 1998; Rabinovich et al, 2000b;

Pitko	Finland	1	7	5+10	a, a, d	Cornish, 2005;
Pitoma	Croatia	1	7+9	5+10	a, c, d	Vapa, 1989; Jost, 1996; Pogna et al, 1989;
PITTA	CIMMYT-14TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Pivdenna-zorya	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
PJN/BOW//OPATA	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
PJN/BOW//OPATA	CIMMYT-15TH SAWSN	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
PJN/BOW//OPATA	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
PJN/BOW//OPATA	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Pk-15684	Pakistan	null	7+8	5+10	, b, d	Tahir et al, 1996
Pk-16437	Pakistan	2*	7+8	5+10	b, b, d	Tahir et al, 1996
Pk-16475	Pakistan	null	7+8	5+10	c, b, d	Tahir et al, 1996
Pk-16476	Pakistan	1	7+9	5+10	a, c, d	Tahir et al, 1996
Pkb-40	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;

Pkb-krupna	Yugoslavia	1	7+8	2+12	a, b, a	Vapa, 1989;
PI-145	U.S.A.	2*	7/17+18	2+12/5+10	b, a/i, a/d	Lookhart et al, 1993
Plainsman-v	U.S.A.	1/2*	7+8	5+10	a/b, b, d	Graybosh, 1992;
Planet	Germany	1	7	5+10	a, a, d	Kazman and Lein, 1996; Rabinovich et al, 2000b;
PlanetX	Germany	1	14+15/7	5+10	a, h/a, d	Rabinovich
Planinka	Croatia	1/2*	7+8/17+18	5+10	a/b, b/i, d	Rabinovich et al, 2000b;
Platte	U.S.A.	2*	20	5+10	b, e, d	Shan et al, 2007;
Plenty	Canada	null	6+8	null	c, d, i	Anon, 1998;
Plinio	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Pliska	Bulgaria	null	7+9	5+10	c, c, d	Rabinovich et al, 2000a;
Pliva	Yugoslavia	1/null	6+8/7+9	2+12	a/c, d/c, a	Vapa, 1989;
Pobeda	Bulgaria	2*/null	7+9/6+8	5+10/2+12	b/c, c/d, d/a	Stoeva et al, 1997; Galova et al, 2001
Pobeda-50	Russia	2*	7+8/7+9	5+10/2+12	b, b/c, d/a	Rabinovich et al, 2000a;

Podenco	Portugal	2*	17+18	5+10	b, i, d	Igrejas et al, 1999
Podmoskovnaya	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Podunavka	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Kolster et al, 19881;
Podunavka-1	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Podunavka-3	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989;
Pohjola	Finland	2*	7+9	12	b, c, l	Sontang et al, 1986
Poinville	France	null	6+8(?)	-	c, d(?),	Branlard and Le Blank, 1985;
Pokal	Austria	1	7+9	5+10	a, c, d	Groger et al, 1997;
Polesine	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Polesskaya-70	Ukraine	null	7+9	2+12	c, c, a	Morgunov et al, 1990; Ya, 1997;
Polesskaya-87	Ukraine	null	6+8	2+12	c, d, a	Ya, 1997; Sobko and Sozinov, 1999;
Polesskaya-90	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Polimka	Yugoslavia	null	7+9	2+12	c, c, a	Vapa, 1989;

Poliska-70	Ukraine	2*/null	7+9	2+12	b/c, c, a	Morgunov et al, 1990; Ya, 1997;
Poliska-87	Ukraine	null	6+8	2+12	c, d, a	Ya, 1997; Sobko and Sozinov, 1999;
Poliska-90	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Poljana	Yugoslavia	2*	7+9	5+10	b, c, d	Knezevic et al, 1993;
Poljarka	Croatia	1	7+9	5+10	a, c, d	Vapa, 1989;
Polkka	Sweden	2*	7+8	5+10	b, b, d	Tohver et al, 2001;
Polovchanka	Russia	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Rabinovich et al, 2000a;
Poltavka	Russia	2*/1/null	7+9	2+12	b/a/c, c, a	Morgunov et al, 1990; Rabinovich et al, 2001; Bespalov, 1994;
Polukarlik-3	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Polukarlikovaya-49	Russia	2*	7+9	5+10	b, c, d	Ya, 1997; Rabinovich et al, 2000a;
Pomoravka	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Ponca	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Poncheau	France	null	7	5+10	c, a, d	Branlard and Le Blank, 1985; Branlard et al, 2003;

Pondera	U.S.A.	1	7+8	5+10	a, b, d	Rabinovich et al, 2000b;
Ponderosa	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Pontus	Austria	null	7+9	2+12	c, c, a	Groger et al, 1997;
Popatiya	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
Porada	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Portage	U.S.A.	1	6+8	2+12	a, d, a	Graybosh, 1992;
Portal	Germany	null/1	7+9/7	5+10	c/a, c/a, d	Johansson et al, 1993;
Posavka-1	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Posavka-2	Yugoslavia	2*	7+9	5+10/2+12	b, c, d/a	Vapa, 1989; Knezevic et al, 1993; Bedo and Lang, 2005
Poshana	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Poso	U.S.A.	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993;
Poso-41	U.S.A.	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Poso-44	U.S.A.	null	20	2+12	c, e, a	Rayfuse and Jones, 1993;

Poso-48	U.S.A.	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Potam-s-70	Mexico	1/2*	7+9	5+10	a/b, c, d	Cornish, 2005;
Pothowar	Pakistan	2*	7+8	2+12	b, b, a	Tahir et al, 1995;
Potomac	U.S.A.	null	7+9	2+12	c, c, a	Graybosh, 1992;
Povaga	Ukraine	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2001;
Powers-club	U.S.A.	2*	22	2+12	b, k, a	Rayfuse and Jones, 1993;
Pozezanka	Croatia	1	7+8	2+12	a, b, a	Vapa, 1989;
Ppg-596	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Pragana-preta	Spain	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;
Prairie	U.S.A.	1	7+9	3+12	a, c, g	Graybosh, 1992;
Prairie Red	U.S.A.	2*	7+8	2+12	b, b, a	Shan et al, 2007;
Precoz Parana Inta	Argentina	2*	7*+8/7+9	5+10	b, u/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Prelude	Canada	2*	7+8	2+12	b, b, a	Anon, 1998;

Premier	U.K.	null	20	2+12	c, e, a	Rayfuse and Jones, 1993;
Prestige	France	null	14+19	5+10	c, ?, d	Branlard and Le Blank, 1985; Rabinovich et al, 2000b;
Prestizh	Russia	1	7+8	5+10	a, b, d	Anon, 2004;
Preston	Canada	2*/1	7+8/7/7+9	5+10	b/a, b/a/c, d	Anon, 1998; Rabinovich et al, 2000b;
Preto-algarvio	Spain	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;
Preto-amarelo	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
PREW	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Priam	France	null	7+8	2+12	c, b, a	Branlard et al, 2003;
Priazovskaya-uluchshennaya	Russia	2*/1	7+9	5+10	b/a, c, d	Morgunov et al, 1990;
Priboi	Ukraine	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2001;
Pricama	Italy	2*	7+9	5+10	b, c, d	Pogna et al, 1989;
Prieur	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Prikubanskaya	Russia	null/2*	7+8/7+9	2+12/5+10	c/b, b/c, a/d	Cerny, et al 1989; Rabinovich et al, 2000a

Prilenskaya-19	Russia	2*/null	17+18	2+12	b/c, i, a	Rabinovich et al, 2001;
Prilenskaya-6	Russia	1/2*	17+18	2+12	a/b, i, a	Rabinovich et al, 2001;
Prilepcanka	Macedonia	null	7	2+12/5+10	c, a, a/d	Vapa, 1989;
Primadur	France	null	6+8	null	c, d, i	Anon, 1998;
Prima-odesskaya	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Primepi	France	null	20	2+12	c, e, a	Branlard and Le Blank, 1985;
Primo	France	null	7+9	5+10	c, c, d	Branlard and Le Blank, 1985;
Primoasi	Italy	1	7+9	2+12	a, c, a	Chunin, 1991; Perenzin et al, 1997;
Primorskaya-21	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;
Prince	Belgium	null	6+8	2+12	c, d, a	Cornish, 2005;
Prinia	Mexico	2*	7+9/17+18	5+10	b, c/i, d	Rabinovich et al, 2000b;
Prinqual	France	2*	17+18	2+12	b, i, a	Branlard and Le Blank, 1985; Rabinovich et al, 2000b; Bonjean et al, 2001; Branlard et al, 2003;
Priokskaya	Russia	1	7+8	5+10	a, b, d	Rabinovich et al, 2001; Bespalov, 1994;

PRL/ALD//URES/BUC	CIMMYT-15TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
PRL/SARA//TSI/VEE#5	CIMMYT-15TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
PRL/VEE#10	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
PRL/VEE#10	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
PRL/VEE#10	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
PRL/VEE#6/ /VORONA/3/2*PRL/VEE#6	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
PRL/VEE#6//STAR/3/PRL/VEE#6	CIMMYT-29TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Pro Inta Bon. Redomón	Argentina	1	7+8	5+10	a, b, d	Dubcovsky et al, 2003
Probrand-711	U.S.A.	2*	7+8	5+10	b, b, d	Lookhart et al, 1993;
Probrand-830	U.S.A.	null	7+8	5+10	c, b, d	Lookhart et al, 1993;
Probrand-Sykurov, 1992	U.S.A.	1	17+18	2+12	a, i, a	Lookhart et al, 1993;
Probstdorfer-extrem	Austria	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997;
Probstdorfer-karat	Austria	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Groger et al, 1997; Anon, 1998;

Probstdorfer-martin	Austria	null	7+9	5+10	c, c, d	Groger et al, 1997;
Probstdorfer-perlo	Austria	2*	7+9	5+10	b, c, d	Kazman and Lein, 1996; Groger et al, 1997; Anon, 1998;
Probstdorfer-pokal	Austria	1	7+9	5+10	a, c, d	Groger et al, 1997;
Probstdorfer-regent	Austria	1	6+8	5+10	a, d, d	Groger et al, 1997;
Procace	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;
Proda	Turkey	2*	7+9	5+10	b, c, d	Sanal et al, 2005
Prodax	U.S.A.	2*	17+18	5+10	b, i, d	Lookhart et al, 1993; Rabinovich et al, 2000b;
Produra	U.S.A.	null	6+8	-	c, d,	Vallega and Waines, 1987;
Produttore	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Profit	Germany	null	6+8	5+10	c, d, d	Groger et al, 1997;
Profit-75	U.S.A.	1	17+18	5+10	a, i, d	Rabinovich et al, 2001;
Progress	Ukraine	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Rabinovich et al, 2001; Urazaliev,2003;
ProINTA Amanecer	Argentina	1	17+18	5+10	a, i, d	Dubcovsky et al, 2003

ProINTA Bonaerense Alazan	Argentina	2*	17+18	5+10	b, i, d	Dubcovsky et al, 2003
ProINTA Calidad	Argentina	2*	7+8/7*+8	5+10	b, b/u, d	Schuster et al, 1997
ProINTA Cauquen	Argentina	2*	7+9	5+10	b, c, d	Dubcovsky et al, 2003
ProINTA Cinco Cerros	Argentina	1	13+16	5+10	a, f, d	Dubcovsky et al, 2004
ProINTA Colibrí1	Argentina	1	OE7+8	5+10	c, al, d	Liu et al 2008
ProINTA Colibri	Argentina	1	7+8	5+10	a, b, d	Dubcovsky et al, 2004
ProINTA Don Alberto	Argentina	1	7+8	5+10	a, b, d	Gianibelli et al, 2002;
ProINTA Federal	Argentina	1/2*	7*+8/7+8/7+9	5+10	a/b, u/b/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
ProINTA Granar	Argentina	2*	13+16	5+10	b, f, d	Dubcovsky et al, 2004
ProINTA Guazu	Argentina	1	7+9	5+10	a, c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
ProINTA Huen Pan	Argentina	1	17+18	5+10	a, i, d	Dubcovsky et al, 2004
ProINTA Huron	Argentina	2*	7*+8	5+10	b, u, d	Dubcovsky et al, 2004
ProINTA Imperial	Argentina	1	7*+8/7+8/7+9	5+10	a, u/b/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2003

ProINTA Isla Verde	Argentina	1	13+16	2+12	a, f, a	Gianibelli et al, 2002;
ProINTA Oasis	Argentina	1	7*+9	5+10	a, v, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
ProINTA Pigue	Argentina	1	7*+9	5+10	a, v, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
ProINTA Pincen	Argentina	2*	OE7+8*	5+10	b, al, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
ProINTA Puntal	Argentina	2*	7+8	5+10	b, b, d	Gianibelli et al, 2002;
ProINTA Querandi	Argentina	1	7+9	5+10	a, c, d	Gianibelli et al, 2002; Dubcovsky et al, 2003
ProINTA QuIntal	Argentina	1	17+18	5+10	a, i, d	Gianibelli et al, 2002;
ProINTA Real	Argentina	2*	7*+8	5+10	b, u, d	Dubcovsky et al, 2004
ProINTA Redomon	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
ProINTA Super	Argentina	2*	7/7+9	5+10	b, a/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
ProINTA Supremo	Argentina	2*	7+9	5+10	b, c, d	Dubcovsky et al, 2004
Prokhorovka	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Prokofevka	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001; Branlard et al, 2003;

Promentin	France	null	6+8	4+12	c, d, c	Pogna et al, 1989;
Promesse	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;
Prometei	Ukraine	1	7+9	5+10	a, c, d	Rabinovich et al, 2001; Rabinovich et al, 2001;
Promin	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Morgunov et al, 1990;
Pronghorn	U.S.A.	1/2*	7+9	5+10	a/b, c, d	Shan et al, 2007;
Pronto	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Prophet	U.K.	null	17+18	2+12	c, i, a	Kazman and Lein, 1996; Branlard et al, 2003;
Proqual	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985;
Prosperity	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Prostor	Bulgaria	2*	7+9	2+12	b, c, a	Branlard et al, 2003; Sanal et al, 2005
Protinal	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;
Prowers	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Prowers 99	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;

Przhevalskaya	Kyrgyzstan	null	7+8/7+9	5+10	c, b/c, d	Morgunov et al, 1990;
PSN/BOW	CIMMYT-4TH HRWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PSN/BOW//SERI	CIMMYT-4TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
PSN/BOW//SERI	CIMMYT-8TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Pugsley	Australia	1	7+8	5+10	a, b, d	Cornish, 2007;
Pukem INIA	Chile	2*	-	2+12	b, , a	Zuniga et al, 2004
Pulsar	Australia	2*	7+8	2+12/5+10	b, b, a/d	Anon, 1998; Cornish, 2005
Punjab-76	Pakistan	1	13+16	5+10	a, f, d	Tahir et al, 1995;
Punjab-81	Pakistan	2*	17+18	2+12	b, i, a	Tahir et al, 1995;
Punjab-85	Pakistan	2*	7+9	5+10	b, c, d	Tahir et al, 1995;
Punjad-88	Pakistan	2*	17+18	2+12	b, i, a	Tahir et al, 1995;
Purcam	U.S.A.	1	7+8/13+16	2+12	a, b/f, a	Graybosh, 1992;
Purplestraw	U.S.A.	1/2*	13+19	2+12	a/b, g, a	Graybosh, 1992;

Pursang	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Pusa-53	India	1	7+9	5+10	a, c, d	Brunori et al, 1989; Bepalov, 1994;
Puyou 9175	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
PVN 1RS 1BL CIM	CIMMYT-30TH IBWSN	1	-	5+10	a, -, d	Payne and Pena, 2006;
PVN 1RS 1DLBB	CIMMYT-30TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PVN 1RS 1DLW	CIMMYT-30TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PVN 5RS 5BL	CIMMYT-30TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PVN 6BS 6RLBB	CIMMYT-30TH IBWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
PVN//KAUZ/PVN	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
PVN/SPRW//W3918A/JUP	CIMMYT-14TH SAWSN	null	17+18	2+12	c, i, a	Payne and Pena, 2006;
PVN/STAR	CIMMYT-31ST IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
PYN*2/CO725052	CIMMYT-3RD FAWWYT	null Ó 2*	7+9	3+12	c Ó b, c, b	Payne and Pena, 2006;
PYN/BAU	CIMMYT-3RD FAWWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

Pyrothrix-28	Kazakhstan	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Pysar-29	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Pyselka	Czech Republic	null	20	2+12	c, e, a	Gregova et al, 2004;
Qing-30	China	null	7+9/7+8	2+12	c, c/b, a	Wang et al, 1993;
Qingfeng-1	China	2*	7+9	5+10/2+12	b, c, d	Wang et al, 1993;
Qinmai-6	China	1	7+9	2+12	a, c, a	He et al, 1992;
Qt-5360	Australia	1	17+18	5+10	a, i, d	Cornish, 2005;
Qt-5648	Australia	1	7+9	2+12	a, c, a	Cornish, 2005;
Quaderna	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Quadrat	Australia	1	20	2+12	a, e, a	McIntosh et al, 1988; Cornish, 2005
Quadraro	Italy	null	6*+8*	-	c, w,	Vallega and Waines, 1987; McIntosh et al, 1989; McIntosh et al, 1991;
Qual-2000	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
Qual-bis-2000-13	Australia	1	7+9	2+12	a, c, a	Wrigley et al, 2005

Qual-club-2000-15	Australia	1	7+9	2+12	a, c, a	Wrigley et al, 2005
Qualital	France	2*	7+9	5+10	b, c, d	Branlard et al, 2003;
Quality-a	Canada	null	7+9	5+10	c, c, d	Anon, 1998;
Quanah	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Anon, 1993c;
Quarrion	Australia	null	7+8	2+12/5+10	c, b, a/d	Wrigley et al, 2005
Quds	Iran	2*/null	17+18/b	2+12/5+10	b, i/b, a/d	Bahraei et al, 2004;
Queen-fan	Australia	2*	7+9	2+12	b, c, a	Cornish, 2005
Quilafen	Chile	null	6+8	null	c, d, i	Anon, 1998;
Quimori-79	Bolivia	1	17+18	5+10	a, i, d	Cornish, 2005;
Quivira	U.S.A.	null	7+8	2+12	c, b, a	Graybosh, 1992;
R 25	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
R 57	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
R 59	China	1	7+9	5+10	a, c, d	Liu et al, 2005;

R37/GHL121	CIMMYT-3RD FAWWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
R37/GHL121/ /KAL/BB/3/JUP/MUS/4/2*YMI #6/5/CBRD	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
RABE/6/WRM/4/FN/3	CIMMYT-16TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
RABE/6/WRM/4/FN/3	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
RABE/6/WRM/4/FN/3*TH/ /K58/2*N/3/AUS- 6869/5/PELOTAS	CIMMYT-15TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
RABE/6/WRM/4/FN/3*TH/ /K58/2*N/3/AUS- 6869/5/PELOTAS	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
RABE/TAM108//2*RA	CIMMYT-16TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
RABE/TAM108//2*RABE	CIMMYT-15TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Rac-20	Australia	1	7+8	5+10	a, b, d	Anon, 1998;
Rac-587	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Rac-644	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Rac-655	Australia	2*	17+18	5+10	b, i, d	Cornish, 2005;
Rac-662	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;

Rac-702	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Rac-704	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Rac-710	Australia	1	7+8/7	2+12	a, b/a, a	Cornish, 2005;
Rac-730	Australia	2*	17+18	5+10/2+12	b, i, d/a	Cornish, 2005;
Rac-731	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Racine	U.S.A.	2*	7	5+10	b, a, d	Graybosh, 1992;
Rada	Russia	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2000a;
Rada	Slovak Republic	null	7+9	5+10	c, c, d	Galova et al, 2001
Radoso	Italy	null/2*	6+8	null	c/b, d, i	Anon, 1998;
Radja	France	null/2*	7+8	2+12	c/b, b, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Radosinska-dorada	Slovak Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997;
Radosinska-karola	Slovak Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997;
Radosinska-norma	Slovak Republic	2*	7+9	5+10	b, c, d	Gregova et al, 1997;

Radosinska-polorana-562	Slovak Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997;
Radosinska-rana-594	Slovak Republic	null	7+9	5+10	c, c, d	Gregova et al, 1997;
Radusa	Yugoslavia	2*	7+9	5+10	b, c, d	Soltes-Rak, 1991;
Rafa	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985;
Raffaello	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
Raj 1555	India	null	7 + 8	-	c, b, -	Oak et al, 2004;
Raj1482	India	1	17+18	2+12	a, i, a	Ram, 2003;
Raj-1482	India	1	20	2+12	a, e, a	Bhagwat and Bhatia, 1988;
Raj1972	India	2*	7+8	5+10	b, b, d	Ram, 2003;
Raj2184	India	2*	7+8	5+10	b, b, d	Ram, 2003;
Raj3077	India	1	17+18	2+12	a, i, a	Ram, 2003;
Raj-3077	India	2*	7+8	2+12	b, b, a	Rao et al, 2001;
Raj3765	India	1	7	5+10	a, a, d	Ram, 2003;

Raj-3765	India	2*	7+8	2+12	b, b, a	Das et al, 2001;
Raj-911	India	null	20	-	c, e, -	Oak et al, 2004;
Rall	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Graybosh, 1992; Kazman and Lein, 1996;
Ralle	Germany	1	7+9	5+10	a, c, d	Kolster et al, 1993; Rabinovich et al, 2000b;
Rallye	France	null	6+8	5+10	c, d, d	Branlard and Le Blank, 1985;
Ram	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Ramiro	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996;
Randa	Italy	2*	7+9	5+10	b, c, d	Pogna et al, 1989;
Randur	France	null	6+8	-	c, d,	Branlard and Le Blank, 1985;
Ranee	Australia	1	14+15	5+10	a, h, d	Cornish, 2005;
Ranger	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Ranger	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Rannyaya-12	Russia	1	7+9	5+10/2+12	a, c, d/a	Rabinovich et al, 2000a

Rannyaya-73	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Rannyaya-93	Ukraine	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Rapier	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Rapozinho	Portugal	1	6+8	-	a, d,	Vallega and Mello-Sampayo 1987;
Rash-rool	Iraq	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Rasman	Iraq	2*	7+8	2+12/5+10	b, b, a/d	Anon, 1998;
Rata	New Zealand	null	7+9	3+12	c, c, b	Griffin et al, 2001;
Ratarka	Croatia	null/2*	7+9/7/7+8	2+12	c/b, c/a/b, a	Vapa, 1989;
Raven	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Ravnica	Yugoslavia	1	7+9	2+12	a, c, a	Vapa, 1989;
Rawal-87	Pakistan	2*	7+9	5+10	b, c, d	Tahir et al, 1995;
Rawhide	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
RAYON F 89	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

RDWG/3*BCN	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Real	France	null	7+8	2+12	c, b, a	Branlard et al, 2003;
Reaper	U.K.	1	6+8	3+12	a, d, b	Kazman and Lein, 1996;
Rebeca	Mexico	1	17+18	5+10	c, i, d	Liu et al 2008
Rebrisoara-1	Romania	1	7+8	2+12	a, b, a	Popa et al, 2004
Recanati	Italy	1	7	2+12	a, a, a	Pogna et al, 1989; Kazman and Lein, 1996;
RECITAL	CIMMYT-3RD FAWWYT	2*	6+8	5+10	b, d, d	Payne and Pena, 2006;
Recital	France	2*	6+8	5+10	b, d, d	Pogna et al, 1989; Branlard et al, 2003;
Recitch	France	2*	7+9	5+10	b, c, d	Galova et al, 2001
Record	Germany	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Red River	Canada	1	7+8	5+10	a, b, d	Bushuk, 2006;
Red River 68	U.S.A.	1	7+8/OE7+8*	5+10	a, b/al, d	Rabinovich et al, 2000a; Cornish, 2005
Red-Bobs	Canada	1	7+9	5+10	a, c, d	Anon, 1998;

Red-Bobs-222	Canada	1	7+9	5+10	a, c, d	Cornish, 2005;
Red-chaff	U.S.A.	2*	6	2+12	b, an, a	Rayfuse and Jones, 1993;
Red-chief	U.S.A.	1/2*	6+8	2+12	a/b, d, a	Graybosh, 1992;
Red-egyptian	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Red-fife	Canada	1/2*	7+9	5+10	a/b, c, d	Anon, 1998; Rabinovich et al, 2000a;
Redhart-3	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Redhull	U.S.A.	2*	7+8	2+12	b, b, a	Graybosh, 1992;
Redland	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Rabinovich et al, 2000b;
Redman	Canada	1	6+8	5+10	a, d, d	Anon, 1998; Lookhart et al, 1993;
Red-rock	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Red-wave	U.S.A.	1	6+8	2+12	a, d, a	Graybosh, 1992;
Redwin	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992; Anon, 1998;
REDWING	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

Reed	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;
Rees	Australia	2*	17+18	5+10	b, i, d	Anon, 1993c; Wrigley et al, 2005
Reeves	Australia	2*	13+16	4+12/2+12	b, f, c/a	Wrigley et al, 2005
Regal	U.S.A.	null	6+8	-	c, d,	Branlard and Le Blank, 1985;
Regency	New Zealand	null	7+9	5+10	c, c, d	Cornish, 2005
Regent	Austria	1	6+8	5+10	a, d, d	Groger et al, 1997; Anon, 1998;
Regent	Canada	1	6+8	5+10	a, d, d	Sasek et al, 1997; Rabinovich et al, 2000b;
Regina	Czech Republic	null	7+9	5+10	c, c, d	Gregova et al, 1997;
REH/HARE//2*BCN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Reiher	Germany	null	-	5+10	, , d	Waga, 1992;
Rekeze-12	China	null	7+8	2+12	c, b, a	He et al, 1992; Groger et al, 1997;
Rektor	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Rogers et al, 1989;
Reldep	Australia	1	7+9	2+12	a, c, a	Cornish, 2005

Reliance	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Reliance	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Rely	U.S.A.	2*/null	6/7+8/17+18	2+12	b/c, an/b/i, a	Rayfuse and Jones, 1993; Rayfuse and Jones, 1993
Remeslivna	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2004;
Remois	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Rempart	France	1	7+8	3+12	a, b, b	Branlard et al, 2003;
Remus	Germany	null	14+15	5+10	c, h, d	Kazman and Lein, 1996; Groger et al, 1997; Rabinovich et al, 2000b;
Renaico INIA	Chile	null	-	2+12	, , a	Groger et al, 1997; Zuniga et al, 2004
Renan	France	2*	7+8/7+9	5+10	b, b/c, d	Kazman and Lein, 1996; Bonjean et al, 2001; Branlard et al, 2003; Branlard, 2003
Renania	Italy	null	7+9	2+12	c, c, a	Pogna et al, 1989;
Renard	U.K.	null	7	4+12	c, a, c	Cornish, 2005;
Rendezvous	U.K.	1	6+8	3+12	a, d, b	Cornish, 2005;
Rendor	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;

Renesansa	Yugoslavia	null	7+9	5+10	c, c, d	Dencic, 2001;
Renfrew	Canada	1	7+8	5+10	a, b, d	Anon, 1998;
Renghet	Romania	null	7+9	2+12	c, c, a	Popa et al, 2004
Reno	Italy	1	6+8	5+10	a, d, d	Pogna et al, 1989;
Reno	Italy	1	7+9	2+12	a, c, a	Pogna et al, 1989;
Reno	Norway	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b;
Renodlat-squarehead	Sweden	null/1	7+8/6+8/20	5+10/2+12	c/a, b/d/e, d/a	Gregova et al, 2004;
Renown	Canada	1/2*	7+9/6+8	5+10	a/b, c/d, d	Anon, 1998;
Renown	U.K.	1	7+9	5+10	a, c, d	Cornish, 2005;
Rescler	France	2*	7+9	5+10	b, c, d	Branlard et al, 2003; Anon, 1998;
Rescue	Canada	1	7+9	5+10	a, c, d	Cornish, 2005;
Residence	Germany	null	7	2+12	c, a, a	Tohver et al, 2001, Tohner, 2007;
Resistente	Italy	null	720/s	2+12	c, ae/s, a	Pogna et al, 1989; Rabinovich et al, 2000b; Branlard et al, 2003;

Reso	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985;
Retacon-Inta	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Reva	Argentina	null	6+8	null	c, d, i	Anon, 1998; Anon, 1998;
Reward	Canada	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b; Rabinovich et al, 2000b;
Rex	France	1	7+9	5+10	a, c, d	Branlard and Le Blank, 1985; Branlard et al, 2003;
Rex	U.S.A.	1	7+9	5+10	a, c, d	Cornish, 2005;
Rexia	Slovak Republic	1	7+9	5+10	a, c, d	Sasek et al, 1997;
Reyati	Lebanon	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
RF-1	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Rhea	Australia	2*	7+9	2+12	b, c, a	Cornish, 2007;
Rheia	Czech Republic	1	6+8	5+10	a, d, d	Dhaliwal et al, 1988;
Rial	France	1	7+8	2+12	a, b, a	Branlard and Le Blank, 1985;
Riale	Italy	null/2*	7+8/7*+8	2+12/5+10	c/b, b/u, a/d	Kazman and Lein, 1996; Pogna et al, 1989

Riale	Italy	null	7+8	2+12	c, b, a	Pogna et al, 1989
Rialto	U.K.	1	17+18	5+10	a, i, d	Cornish, 2005;
Riband	U.K.	null	6+8	2+12	c, d, a	Branlard et al, 2003; Kazman and Lein, 1996;
Riband	U.K.	null/1	6+8	2+12	Glu-/a, d, a	Griffin et al, 2001;
Riccio	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989; Anon, 1998;
Richi (CItr-2089)	Algeria	null	7+8	-	c, b, -	Carillo et al, 2005;
Rideau	Canada	1	6+8	5+10	a, d, d	Cornish, 2005;
Ridley	India	2*	20	2+12	b, e, a	Ram, 2003;
Riemland	South Africa	2*	7+9	5+10	b, c, d	Cornish, 2005;
Rieti-comune	Italy	null	20	3+12	c, e, b	Pogna et al, 1989;
Rigoudi	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985;
Rikaze-12	China	null	7+8	2+12	c, b, a	He et al, 1992;
Riley	U.S.A.	1	6+8	2+12	a, d, a	Graybosh, 1992; Rabinovich et al, 2000b;

Riley-67	U.S.A.	1	7+8	5+10	a, b, d	Graybosh, 1992;
Rimpaus-dickkopf	Germany	null/1/2*	20/6+8/7+8	2+12	c/a/b, e/d/b, a	Gregova et al, 2004;
Rimpaus-fruher-bastard	Germany	null	7+8	2+12	c, b, a	Gregova et al, 1999;
Rimpaus-winterweizen	Germany	1	-	-	a, ,	Sobko and Sozinov, 1997;
Rinaldo	Germany	null	7+9	5+10	, c, d	Waga, 1992;
Ringo	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Rio	Italy	null	13+16	-	c, f,	Vallega and Waines, 1987;
Rio	U.S.A.	1/2*	7+9	2+12/5+10	a/b, c, a	Graybosh, 1992; Branlard et al, 2003;
Riol	France	null	6+8	2+12	c, d, a	Branlard and Le Blank, 1985;
Rita	Italy	2*	7+9	5+10	b, c, d	Branlard et al, 2003;
Rita	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Ritmo	Netherlands	1	6+8	3+12/2+12	a, d, b/a	Kazman and Lein, 1996; Sasek et al, 1997;
Ritzelhofer	Austria	null/1	7+9/7+8/6+8	2+12	c/a, c/b/d, a	Gregova et al, 2004; Branlard et al, 2003;

Rivoli	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985;
RL 4045	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
RL 4452	Canada	2*	VII	5+10	b, x, d	Bushuk, 2006;
RL 5045	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
RL-2938	Canada	2*	17+18	5+10	b, i, d	Anon, 1998;
RL-4008	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4125	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4137	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4137-W	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4222	Canada	2*	7+9	2+12	b, c, a	Anon, 1998;
RL-4302	Canada	1	7+8	5+10	a, b, d	Anon, 1998;
RL-4353	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4356	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;

RL-4359	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
RL-4361	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
RL-4374	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4410	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4452	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
RL-4471	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4549	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
RL-4554	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
RL-4555	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4571	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4585	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4587	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4588	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;

RL-4596	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4605	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4609	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4610	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4611	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4613	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4615	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4616	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4618	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4620	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4621	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4622	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4632	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;

RL-4638	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4644	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-4650	Canada	2*	7+8	5+10	b, b, d	Anon, 1998;
RL-4654	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-5353	Canada	null	7+8	2+12	c, b, a	Anon, 1998;
RL-5405	Canada	2*	7+9	5+10	b, c, d	Anon, 1998;
RL-5607	Canada	null	7+8	2+12	c, b, a	Anon, 1998;
RL-5608	Canada	null	7+8	2+12	c, b, a	Anon, 1998; Branlard et al, 2003;
RL6010/4*INIA66//5*GEN	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
RL6010/6*SKA//3*CNO79	CIMMYT-14TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
RL6043/4*NAC	CIMMYT-4TH SAWYT	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
RL6043/4*NAC	CIMMYT-6TH SAWYT	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Roazon	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;

Robin	Australia	1	20	5+10	a, e, d	Ng and Pogna, 1989;
Roblin	Canada	2*	7+8	5+10	b, b, d	McIntosh et al, 1998; Bushuk, 1997;
Roblin (BW 92)	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
Roccia	Italy	null	7+15	-	c, z,	McIntosh et al, 1989; Lookhart et al, 1993; Vallega and Waines, 1987; Dubuc and Boudreau, 1992; McIntosh et al, 1988;
Rocky	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Rodco	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Rodeo	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987; Rabinovich et al, 2001;
Rodina	Russia	null/2*	7+9/6+8	5+10	c/b, c/d, d	Morgunov et al, 1990; Bespalov, 1994;
Rodnik-tarasovskii	Russia	1	7+9	5+10	a, c, d	Anon, 2004;
ROEK//MAYA/NAC/3/FASAN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ROEK//MAYA/NAC/3/TEPOCA	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
ROEK//MAYA/NAC/5/	CIMMYT-16TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Roemer	Sweden	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;

Rogue de la Gruyere	Chile	2*	7+8	5+10	b, b, d	Rayfuse and Jones, 1993
Rohtas-90	Pakistan	2*	7+9	5+10	b, c, d	Tahir et al, 1995;
Roisel	France	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;
Rojo-boadilla-de-campos	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Rojo-de-campos	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Rojo-de-caravaca	Spain	2*	20	2+12	b, e, a	Ruiz et al, 2002;
Rojo-de-carcedo	Spain	2*	20/7q	2+12	b, e/aq, a	Ruiz et al, 2002;
Rojo-de-humanes	Spain	null	7+8	5+10	c, b, d	Ruiz et al, 2002;
Rojo-de-paredes	Spain	2*	7+9	2+12	b, c, a	Ruiz et al, 2002;
Rojo-de-vallaseca	Spain	null	20	4+12	c, e, c	Ruiz et al, 2002;
Rokycanska-sametka	Czech Republic	1/null	7+8/7+9/20	2+12	a/c, b/c/e, a	Gregova et al, 2004;
Roland	U.S.A.	1	7+9	5+10	a, c, d	Lookhart et al, 1993;
ROLLER	CIMMYT-14TH SAWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;

Rollo	Norway	2*/null	7+8	5+10	b/c, b, d	Rabinovich et al, 2000b;
Roma	Italy	null	17+18/20	2+12	c, i/e, a	Pogna et al, 1989;
Roma	Italy	null	17+18	2+12	c, i, a	Rayfuse and Jones, 1993;
Romanus	Netherlands	1	6+8	5+10	a, d, d	Groger et al, 2005
Romany	Kenya	2*	7+8	2+12	b, b, a	Cornish, 2005;
Ronaldo	Netherlands	1	6+8	5+10	a, d, d	Groger et al, 2005
Rondine	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Rongotea	New Zealand	2*/1	7+9	5+10	b/a, c, d	Griffin, 1994; Griffin et al, 2001; Anon, 1998; Cornish, 2005
Ronos	Germany	null	7+8	2+12	c, b, a	Kazman and Lein, 1996;
Roque-66	Mexico	1	7+8	5+10	a, b, d	Cornish, 2005;
Roque-f-73	Mexico	1	17+18/13+16	5+10	a, i/f, d	Rabinovich et al, 2000b;
Rosa	Poland	null	7+9	5+10	c, c, d	Waga, 1992; Lookhart et al, 1993;
Rose	U.S.A.	1	7+9	2+12/5+10	a, c, a/d	Graybosh, 1992; Anon, 1993c;

Rosella	Australia	2*	7+8	2+12/5+10	b, b, a/d	Wrigley et al, 2005
Rosen	U.S.A.	2*	7+9	3+12/5+10	b, c, b	Graybosh, 1992; Lookhart et al, 1993;
Roshan	Iran	null	b	2+12	c, b, a	Bahraei et al, 2004;
Rosinka	Russia	null	7+9	5+10	c, c, d	Rabinovich et al, 2001;
Rosinka-2	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Rosinka-3	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Rosinka-tarasovskaya	Russia	null	7+9	5+10	c, c, d	Anon, 2004;
Rossini	France	1	7+8	2+12	a, b, a	Branlard et al, 2003;
Rosiyanka	Russia	1/2*	7+9	5+10	a/b , c, d	Rabinovich et al, 2001;
Rostovchanka	Russia	2*/1	7+9	5+10	b/a, c, d	Morgunov et al, 1990; Ya, 1997; Rabinovich et al, 2000a;
Rostovchanka-2	Russia	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Branlard et al, 2003; Sobko and Sozinov, 1999;
Rotonde	Netherlands	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Rouge-de-la-gruyere	Chile	2*/1	7+8	5+10	b/a, b, d	Rayfuse and Jones, 1993;

Roughrider	U.S.A.	1	6+8/7+8	3+12/5+10	a, d/b, b/d	Graybosh, 1992; Sobko and Sozinov, 1999; Lookhart et al, 1993;
Rovenskaya-31	Ukraine	null	7+9	5+10	c, c, d	Ya, 1997; Anon, 1998;
Rowan	Australia	1	17+18	5+10	a, i, d	Cornish, 2005;
Rowdy	U.S.A.	2*	20	5+10	b, e, d	Shan et al, 2007;
Roxana	Slovak Republic	null	7+9	5+10	c, c, d	Cerny, et al 1989;
Roxo	Brazil	1	7+8	5+10	a, b, d	Igrejas at al, 1999
Roy	U.S.A.	1/null	7+9	2+12	a/c, c, a	Graybosh, 1992;
Royal	U.S.A.	2*	7+8/7	5+10	b, b/a, d	Graybosh, 1992; Branlard et al, 2003;
Royo	U.S.A.	null	18	-	, am,	McIntosh et al, 1991;
Rubiao	Portugal	1	6+8	-	a, d,	Vallega and Mello-Sampayo 1987;
Rubiao-de-barba-preta	Portugal	1	7+8	-	a, b,	Vallega and Mello-Sampayo 1987;
Rubin	Austria	1	7+8	5+10	a, b, d	Groger et al, 1997;
Rubric	Australia	2*	OE7+8*	2+12	b, al, a	Cornish, 2007;

Ruby	Canada	1/2*	7+9	5+10	a/b, c, d	Anon, 1998;
Rudd	Australia	null	6+8	3+12	c, d, b	Branlard et al, 2003; Cornish, 2005
Rudi	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985; Rabinovich et al, 2000a;
Rudolf	Sweden	2*	6+8	2+12	b, d, a	Flæte, , 1996;
Rufa	Russia	1	7+8/7+9	5+10	a, b/c, d	Ya, 1997; Lookhart et al, 1993; Rabinovich et al, 2000a
Rufrum II 2701	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
Rugby	U.S.A.	null	6+8	-	c, d,	Anon, 1989; Vallega, 1988;
Ruler	U.S.A.	1	7+8	5+10	a, b, d	Graybosh, 1992; Branlard et al, 2003;
Runar	Norway	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b;
Rurik	Sweden	null	6+8	5+10	c, d, d	Branlard et al, 2003;
Rusak	Russia	2*/null	7+9	2+12	b/c, c, a	Morgunov et al, 1990;
Ruse-159	Bulgaria	1/null	7+9/7+8	2+12/5+10	a/c, c/b, a/d	Gregova et al, 2004;
Ruska-genealogicka-belka	Czech Republic	1	7+9	2+12	a, c, a	Gregova et al, 1999; Rabinovich et al, 2000b;

Ruskea	Finland	2*	7+8	2+12	b, b, a	Rabinovich et al, 2000b;
Ruso	Finland	1	7+9	5+10	a, c, d	Branlard et al, 2003;
Russ	U.S.A.	2*	7+9/7+8	5+10	b, c/b, d	Anon, 1998;
Russa	Russia	2*/null	7+8/7+9	5+10/2+12	b/c, b/c, d/a	Rabinovich et al, 2000a;
Russet	U.K.	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Russkaya	Russia	2*/null	7+9	5+10/2+12	b/c, c, d/a	Rabinovich et al, 2001;
Russo-10Sykurov, 1992	Portugal	null	13+19	-	c, g,	Vallega and Mello-Sampayo 1987;
S-75-11	Iran	1	7+9	5+10	a, c, d	Bahraei et al, 2004;
Sa-42	Pakistan	1	17+18	2+12*	a, i, j	Tahir et al, 1995;
Sa-75	Pakistan	1	13+16	5+10	a, f, d	Tahir et al, 1995; Vallega, 1988;
Saba (PI-22738)	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
Sabalan	Iran	null	14+15	5+10	c, h, d	Bahraei et al, 2004;
Sabaudia	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987; Anon, 1989;

Sable	Canada	null	13+16	5+10	c, f, d	Morgounov et al 2008
Sabre	Australia	2*	7+9	5+10	b, c, d	Branlard and Le Blank, 1985;
Sabre	U.K.	null	7+8	2+12	c, b, a	Branlard et al, 2003;
SABUF	CIMMYT-7TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Safed-kathia	India	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Safeni-22	Armenia	null/2*	17+18	5+10/2+10	c/b, i, d/e	Urazaliev,2003;
Safeni-332	Armenia	null	13+16	2+10	c, f, e	Urazaliev,2003; Lookhart et al, 1993;
Sage	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Sahin	Turkey	1	7+9	5+10	a, c, d	Sanal et al, 2005
Sahm-jelan	Syria	null	7+9	-	c, c,	Anon, 1989; Vallega, 1988;
Saiga	Netherlands	null	7+9	2+12	c, c, a	Kolster et al, 1993;
Saikai-109	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Saikai-115	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;

Saikai-120	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Saikai-62	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Saikai-69	Japan	2*/null	7+8	2+12	b/c, b, a	Nakamura, 2000a;
Saikai-75	Japan	null	7+8	3+12/2.2+12	c, b, b/f	Anon, 1998; Nakamura, 2000a; Cornish, 2005
Saira-Inta	Argentina	1	17+18	5+10	a, i, d	Gianibelli et al, 2002;
Sakigakekomugi	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Sakyukomugi	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
Saliente	Italy	1	7+9	5+10	a, c, d	Pogna et al, 1989;
Saline	U.S.A.	1	7+8	3+12	a, b, b	Graybosh, 1992; Branlard et al, 2003;
Salmone	Italy	1	7+9	2+12	a, c, a	Pogna et al, 1989;
Salto	Italy	null	7*+8/20	2+12	c, u/e, a	Pogna et al, 1989;
Saluda	U.S.A.	null	6+8/7+9	2+12	c, d/c, a	Graybosh, 1992;
Salvia	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;

Salyut	Russia	2*	7+9/17+18	2+12	b, c/i, a	Rabinovich et al, 2001; Kazman and Lein, 1996;
Samanta	Czech Republic	null	7+8	5+10	c, b, d	Gregova et al, 1997; Sasek et al, 1997;
Samara	Czech Republic	null	6+8	2+12	c, d, a	Hanishova and Hanis, 1997;
Samorinska	Czech Republic	null	7+8	2+12	c, b, a	Gregova et al, 1997;
Sampo	Finland	1	20	2+12	a, e, a	Cornish, 2005;
Sampo	Finland	1	20	2+12	a, e, a	Sontag et al, 1996;
Samsar	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Sana	Croatia	2*/null	6+8	5+10/2+12	b/c, d, d/a	Vapa, 1989; Galova et al, 2001
Sana	Slovak Republic	null	7+9	2+12	c, c, a	Gregova et al, 1997;
San-agustin-Inta	Argentina	1	17+18/OE7+8*	5+10	a, i/a, d	Gianibelli et al, 2002;
Sandal-73	Pakistan	null/1	17+18	5+10	c/a, i, d	Tahir et al, 1995;
Sandomierka	Poland	null	6+8/7+8/7+9	2+12/5+10	c, d/b/c, a/d	Rayfuse and Jones, 1993; Gregova et al, 2004;
Sandown	U.K.	2*	17+18	3+12	b, i, b	Cornish, 2005;

Sandra	Czech Republic	2*	7+9/7+8	2+12	b, c/b, a	Sasek et al, 1997; Gregova et al, 1997; Rabinovich et al, 2000b;
Sandy	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993;
Sanford	U.S.A.	2*	13+16	2+12	b, f, a	Graybosh, 1992;
Sangali 2-2	India	1	23 +18	-	a ,p, -	Oak et al, 2004;
Sangam	India	1	7+9	5+10	a, c, d	Rao et al, 2001; Pogna et al, 1989;
San-giorgio	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;
Sani	Estonia	1/2*/ null	7+8/7+9	5+10	a/b/c, b/c, d	Tohver et al, 2001, Tohner, 2007;
Sanja	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989;
San-lorenzo	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
San-marino	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;
San-mauro	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989; Soltes-Rak, 1991;
San-pastore	Italy	1	20	2+12	a, e, a	Borojevic, 1990; Pogna et al, 1989; Rayfuse and Jones, 1993;
San-pietro	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;

San-prospero	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;
San-rufo	Italy	1/2*	7	2+12	a/b, a, a	Pogna et al, 1989;
Sansone	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Santa Fe	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Santa-marta	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Santerno	Italy	null	7*+8	5+10	c, u, d	Pogna et al, 1989;
Sanzar-4	Uzbekistan	2*	17+18	5+10	b, i, d	Urazaliev,2003;
Sanzar-8	Uzbekistan	2*	7+9	2+10	b, c, e	Urazaliev,2003;
Sao-gotardo	Brazil	1	7+9	5+10	a, c, d	Dubcovsky et al, 2004
SAP/MON//JUN/3/JUN	CIMMYT-14TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
Sapaly	Kazakhstan	1/2*	7*+8	2+12/5+10	a, u, a/d	Urazaliev,2003; Bekes et al 2008
Sapphire	Australia	1	7*+8	2+12	a, u, a	Wrigley et al, 2005
Sapphire	U.K.	null	7+8	3+12	c, b, b	Griffin et al, 2001;

Sappo	Sweden	2*	14+15	2+12	b, h, a	Anon, 1998; Rabinovich et al, 2000b;
Sara	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
SARA//JUP/BJY	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SARA//JUP/BJY	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SARA//JUP/BJY/3/K	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SARA/THB//VEE	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SARA/THB//VEE/3/PSN/BOW	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Sarajka	Yugoslavia	1	7+8	2+12	a, b, a	Vapa, 1989; Bespalov, 1994;
Saratovskaya-29	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; McIntosh et al, 1998;
Saratovskaya-33	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Bespalov, 1994;
Saratovskaya-36	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-38	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-39	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;

Saratovskaya-42	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-44	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Saratovskaya-46	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-48	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-49	Russia	2*	7+9/17+18	2+12	b, c/i, a	Morgunov et al, 1990;
Saratovskaya-50	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-51	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-52	Russia	2*	7+9/7+8	2+12	b, c/b, a	Morgunov et al, 1990; Bespalov, 1994;
Saratovskaya-54	Russia	2*	7+8	5+10	b, b, d	Morgunov et al, 1990; Bespalov, 1994;
Saratovskaya-55	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990; Bespalov, 1994;
Saratovskaya-58	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Saratovskaya-60	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;
Saratovskaya-62	Russia	2*	7+8	2+12	b, b, a	Rabinovich et al, 2001;

Saratovskaya-758	Russia	1	7+8	5+10	a, b, d	Morgunov et al, 1990;
Saratovskaya-8	Russia	1	7+11	5+10	a, s, d	Panin, 1999;
Saratovskaya-90	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Ya, 1997;
Saray-bosna	Turkey	1	7+9	2+12	a, c, a	Sanal et al, 2005
Sardari	Iran	2*	b	5+10	b, b, d	Bahraei et al, 2004;
Sarhad-82	Pakistan	1	17+18	5+10	a, i, d	Tahir et al, 1995;
Sariab-92	Pakistan	1	17+18	5+10	a, i, d	Tahir et al, 1995;
Saribasak	Turkey	null	20	-	c, e,	Vallega, 1988;
Sarina	Netherlands	null	7+8	2+12	c, b, a	Igrejas at al, 1999
Sarka	Czech Republic	null	7+8	5+10	c, b, d	Sasek et al, 1997; Anon, 1998;
Sarno	Netherlands	null	6+8	2+12	c, d, a	Kolster et al, 1993;
Saroz-95	Turkey	2*	7+8	2+12	b, b, a	Sanal et al, 2005
Sarrubra	Russia	2*	6+8/7+8/7+9	2+12	b, d/b/c, a	Morgunov et al, 1990; Bespalov, 1994;

Sarsabz	Pakistan	2*/null	17+18	2+12	b/c, i, a	Tahir et al, 1995;
Saskia	Czech Republic	null	6+8/7+8/7+9	2+12/5+10	c, d/b/c, a/d	Hanishova and Hanis, 1997; Sasek et al, 1997;
Satellite	Italy	2*/null	7+9/7*+8	2+12	b/c, c/u, a	Pogna et al, 1989;
Satu	Sweden	2*	7+8	2+12	b, b, a	Tohver et al, 2001;
Saturn	Canada	1	7*+9	5+10	a, c, d	Morgounov et al 2008
Saturnus	Austria	1	7+9	5+10	a, c, d	Groger et al, 2005
Saul	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989;
SAULESKU #17	CIMMYT-3RD FAWWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
SAULESKU #43	CIMMYT-3RD FAWWYT	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Saumur-d-automne	France	1	7+8/6	2+12	a, b/an, a	Gregova et al, 2004; Bushuk, 1997;
Saunders	Canada	1/2*	7+9	5+10	a/b, c, d	Borojevic, 1990; Ng and Pogna, 1989; Anon, 1998;
Saunders	Canada	1	7+9	5+10	a, c, d	Bushuk, 2006;
Sava	Yugoslavia	1	7+8	2+12	a, b, a	Vapa, 1989; Dencic and Borojevich, 2001;

SAWGAI	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Sawtana	U.S.A.	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b; Sasek et al, 1997;
Saxana	Czech Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997; Rabinovich et al, 2000b;
Sceptre	Canada	null	6+8	-	c, d,	Ng and Pogna, 1989;
Scheepers-69	South Africa	null	17+18	2+12	c, i, a	Cornish, 2005; Anon, 1993c;
Schomburgk	Australia	1	7+8/7+9/7*+8	2+12/5+10	a, b/c/u, a/d	Wrigley et al, 2005
Scimitar	Australia	2*	7+9	5+10	b, c, d	Branlard et al, 2003; Cornish, 2005
Scipion	France	null	7+8	2+12	c, b, a	Branlard and Le Blank, 1985;
Score	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Score	France	null	7	5+10	c, a, d	Cornish, 2005;
Scotty	U.S.A.	2*	7+8/6+8	2+12	b, b/d, a	Graybosh, 1992; Lookhart et al, 1993;
Scout	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992; Lookhart et al, 1993;
Scout-66	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;

Scoutland	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Sd-8070	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Sd-8072	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
Sd-90010	U.S.A.	2*	7+9	5+10	b, c, d	Anon, 1998;
SD97538	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
SD97W609	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
SD98102	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
SDY*3/AMI	CIMMYT-3RD FAWWYT	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Seabreeze	U.S.A.	1	6+8	5+10	a, d, d	Graybosh, 1992;
Selekta	Czech Republic	null	6+8	2+12	c, d, a	Gregova et al, 1997;
Selenga	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Selin	Russia	2*/null	7+9	2+12	b/c, c, a	Rabinovich et al, 2001; Anon, 1998;
Selkirk	Canada	1/2*	7+8/6+8	5+10	a/b, b/d, d	Ng and Pogna, 1989; Graybosh, 1992; Rabinovich et al, 2000a;

Selkirk (CT 186)	Canada	1	6+8	5+10	a, d, d	Bushuk, 2006;
Selkirk-K	Canada	1	6+8	5+10	a, d, d	Anon, 1998;
Sellustra	Italy	null	7*+8	5+10	c, u, d	Pogna et al, 1989;
Selpek	Germany	null	7+9	5+10	c, c, d	Kolster et al, 1993;
Selyanka	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Senatore-capelli	Italy	null/1	20	-	c/a, e,	Liu and Rathjen, 1994; Vallega and Waines, 1987;
Seneca	U.S.A.	1	6+8/7+8/7+9	2+12	a, d/b/c, a	Graybosh, 1992; Anon, 1998;
Senna	Italy	null	6+8	2+12	c, d, a	Pogna et al, 1989; Groger et al, 1997;
Sensor	Germany	2*	6+8	5+10	b, d, d	Kolster et al, 1993; Anon, 1998; Branlard et al, 2003; Rogers et al, 1989;
Senta	Czech Republic	1	7+9	2+12	a, c, a	Gregova et al, 1997;
Sentinel	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Sentry	U.K.	1	7	3+12	a, a, b	Cornish, 2005;
Seodunmil	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;

Serbian	Yugoslavia	null	22	5+10	c, k, d	Anon, 1998;
Serena	Italy	2*	7	2+12	b, a, a	Pogna et al, 1989;
Seri	Mexico	1	7+9	5+10	c, c, d	Liu et al 2008
SERI M 82	CIMMYT-4TH HRWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
SERI*3//RL6010/4*YR	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
SERI*3/CHEN	CIMMYT-29TH IBWSN	1	7+8	5+10	a, b, d	Payne and Pena, 2006;
SERI*4//AGA/6*YR/3/SERI	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
SERI//SERI/OPATA	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SERI/ANGRA	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SERI/CEP80120	CIMMYT-16TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
SERI/NKT//2*KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Seri-m-82	Mexico	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b;
Serio	Italy	2*	7+9	5+10	b, c, d	Borghi, 1995;

Setokomugi	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Setta	Italy	2*	20	5+10	b, e, d	Pogna et al, 1989;
Seu-seun-27	Korea	2*	7+8	2+12	b, b, a	Graybosh, 1992;
Sever	Portugal	2*	7+8	5+10	b, b, d	Igrejas at al, 1999
Severin	Germany	1/2*	7+9	5+10	a/b, c, d	Rogers et al, 1989;
Severn	U.S.A.	1/2*	6+8/7/7+9	2+12	a/b, d/a/c, a	Graybosh, 1992;
Severodonetskaya-yubileinaya	Russia	1	7+8/7+9	5+10	a, b/c, d	Anon, 2004; Ya, 1997;
Severodonskaya	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Severodonskaya-12	Russia	2*	7+9	5+10	b, c, d	Ya, 1997;
Severodonskaya-5	Russia	2*	7+9	5+10	b, c, d	Ya, 1997;
Severokubanka	Russia	null	7+9	5+10/2+12	c, c, d/a	Rabinovich et al, 2000a;
Sevilhano	Portugal	1	7+9	5+10	a, c, d	Igrejas at al, 1999
Sevin	Denmark	null	6+8	2+12	c, d, a	Kazman and Lein, 1996; Rabinovich et al, 2000a;

Sfera	Russia	1/2*	7+9/7+8	5+10	a/b, c/b, d	Ya, 1997; Rabinovich et al, 2000a
SHA3/KAUZ	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SHA3/SERI//G.C.W 1/SERI	CIMMYT-8TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
SHA3/SERI//PSN/BOW	CIMMYT-8TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
SHA3/SERI//SHA4/LIRA	CIMMYT-8TH HRWSN	null/2*	7+9	2+12	c/b, c, a	Payne and Pena, 2006;
SHA3/SERI//SHA4/LIRA	CIMMYT-8TH HRWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
SHA3/SERI//SHA4/LIRA	CIMMYT-8TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
SHA3/SERI//YANG87-142	CIMMYT-8TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
SHA3/SERI//YANG87-142	CIMMYT-8TH HRWSN	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
SHA4/4/YAV79/SAPI/ /YAV79/3/HUI/5/PRL/VEE#6	CIMMYT-29TH IBWSN	1	7+8	2+12	a, b, a	Payne and Pena, 2006;
SHA4/CHIL	CIMMYT-4TH HRWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
SHA5/OPATA	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SHA5/WEAVER	CIMMYT-7TH HRWSN	null	7+8	5+10	c, b, d	Payne and Pena, 2006;

Sha-5-5-14-2-6-1-6	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
SHA7//PRL/VEE#6/3/FASAN	CIMMYT-8TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
SHA7/KAUZ	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
SHA8/GEN	CIMMYT-7TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Shagala	Kazakhstan	2*	7*+8	5+10	b, u, d	Morgounov et al 2008
SHAM 4	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Shan 150	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Shan 160	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Shan 229	China	1	14+15	5+10	a, h, d	He et al, 2005;
Shan 253	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Shan 302518	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Shan 354	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Shan 623	China	1	7+9	3+12	a, c, b	Liu et al, 2005;

Shan 7859	China	null	7+9	2+12	c, c, a	He et al, 2005;
Shan 898-33	China	1	20	2+12	a, e, a	Liu et al, 2005;
Shan 9314	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Shan 93302	China	1	20	2+12	a, e, a	Liu et al, 2005;
Shan-7554	China	1	7+9	2+12	a, c, a	He et al, 1992;
Shan-7859	China	null	7+9	2+12	c, c, a	He et al, 1992;
Shannong-7554	China	1	7+9	2+12	a, c, a	He et al, 1992;
Shannong-7859	China	null	7+9	2+12	c, c, a	He et al, 1992;
Shanyou-225	China	1	14+15	5+9	a, h, g	Xue-Yong et al, 2002
Shandong 924402	China	null/1	7+8	2+12	c/a, b, a	Liu et al 2008
Shandong 924402-6	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Shandong 928802	China	null	20	2+12	c, e, a	Liu et al, 2005;
Shandong 935031	China	1	7+8	2+12	a, b, a	Liu et al, 2005;

Shandong 94(6)006	China	1	6+8	2+12	a, d, a	Liu et al, 2005;
Shandong 9436	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Shandong-187	China	1	7+9/20	5+9	a, c/e, g	Xue-Yong et al, 2002
Shang-111	China	1	7+9	2+12	a, c, a	He et al, 1992;
Shangdong 955159	China	1	13+16	4+12	a, f, c	Liu et al, 2005;
Shanghai-3	China	null	20	5+10	c, e, d	He et al, 1992;
Shanghai-4	China	null	20	5+10	c, e, d	He et al, 1992;
Shanghai-5	China	null	20	5+10	c, e, d	He et al, 1992;
Shanghai-7	China	null	7+9	5+10	c, c, d	He et al, 1992;
Shanmai	China	null	7+9	2+12	c, c, a	He et al, 1992;
Shannong 1355	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Shannong 2013	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Shannong 413863	China	null	7+8	2+12	c, b, a	Liu et al, 2005;

Shannong 60182	China	null	20	2+12	c, e, a	Liu et al, 2005;
Shannong 617	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Shannong 664	China	1	7+8	4+12	a, b, c	Liu et al, 2005;
Shannong 990525	China	1	14+15	2+12	a, h, a	Liu et al, 2005;
Shannong-7859	China	null	7+9	2+12	c, c, a	Wang et al, 1993;
Shanyou 225	China	1	14+15	2+12	a, h, a	Liu et al, 2005;
Shaoyan-5	China	null	20	-	, e,	Nakamura, 2000b;
Sharora	Tajikistan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Shavano	U.S.A.	1	7+9	5+10	a, c, d	Shan et al, 2007;
Shawnee	U.S.A.	2*	6+8	5+10	b, d, d	Cornish, 2005;
Shchedraya-polesya	Ukraine	null	77*+8	2+12	, au, a	McIntosh et al, 1991; McIntosh et al, 1998; Morgunov et al, 1990;
Shera	India	2*	7+9	5+10	b, c, d	Bhagwat and Bhatia, 1988; McLendon et al, 1993;
Sheridan	U.S.A.	null	7+8/6+8	3+12/13+12	c, b/d, Glu-B1b	Cornish, 2005;

Shernyava 13	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Sherpa	Australia	1	20	2+12	a, e, a	Cornish, 2005;
SHI#4414/CROW	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Shield	U.S.A.	1	7+9	5+10	a, c, d	Cornish, 2005;
Shihawi	Syria	null	n7*+8ll	null	-	Vallega, 1988;
Shijiazhuang-54	China	null	7+8	2+12	c, b, a	Xue-Yong et al, 2002
Shikoku-87	Japan	1	7+8	2.2+12	a, b, f	Nakamura, 2000a;
Shimofusakomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Shinchunaga	Japan	null	OE7+8	2	c, al, k	Liu et al 2008
Shiranekomugi	Japan	1	7+8	2+12	a, b, a	Nakamura, 2000a;
Shirasagikomugi	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a; Rabinovich et al, 2000b;
Shiraz	Iran	2*	b	2+12	b, b, a	Bahraei et al, 2004;
Shiraz	U.K.	1	14+15	5+10	a, h, d	Kazman and Lein, 1996;

Shire	U.K.	null	7	3+12	c, a, b	Cornish, 2005;
Shireffs-squarehead	U.K.	null/1	20/6+8	2+12/5+10	c/a, e/d, a/d	Gregova et al, 2004;
Shiroganekomugi	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Shiroodi	Iran	1	7	5+10	a, a, d	Bahraei et al, 2004;
Shirowasekomugi	Japan	null	7+8	2.2+12	c, b, f	Nakamura, 2000a;
Shmel	Russia	2*/null	7+9	2+12	b/c, c, a	Rabinovich et al, 2001; Bespalov, 1994;
Shortandinka	Kazakhstan	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Shortandinskaya 95	Kazakhstan	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Shortandinskaya-25	Kazakhstan	2*	7+9	5+10/2+12	b, c, d/a	Morgunov et al, 1990;
Shortim	Australia	1	7+8	2+12	a, b, a	Cornish, 2005;
Shoshoni	U.S.A.	1/2*	7+9	2+12	a/b, c, a	Graybosh, 1992;
Shot-club	U.S.A.	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993; Anon, 1993c;
Shrike	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;

Shuilishan	China	null	7+8	2+12	c, b, a	He et al, 1992;
Shulishan	China	null	7+8	2+12	c, b, a	He et al, 1992;
Sibakovskaya yubileynaya	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Sibakovskaya-3	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Perenzin et al, 1997;
SIBIA/3/BR12*4//BH1146*6/ALD	CIMMYT-15TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
SIBIA/BAU	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Sibilla	Italy	2*	7+8	5+10	b, b, d	Chunin, 1991;
Sibinka	Russia	1	7*+9	5+10	a, c, d	Morgounov et al 2008
Sibirskaya-59	Russia	1	7+8	2+12	a, b, a	Rabinovich et al, 2001;
Sibirskaya-niva	Russia	2*	7+9	5+10	b, c, d	Ya, 1997; Kolster et al, 1993;
Sibiryashka	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Sicco	Netherlands	1	7+9	5+10	a, c, d	Cornish, 2005; Anon, 1993b;
Sicilio	Spain	2*	7+8	-	b, b,	Vallega and Mello-Sampayo 1987;

Sida	Czech Republic	1/null	7+9	2+12	a/c, c, a	Sasek et al, 1997; Knezevic et al, 1993;
Sidanka	Yugoslavia	1	7+9	2+12	a, c, a	Vapa, 1989; Bonjean et al, 2001; Vapa and Sanic, 1988;
Sideral	France	null	7+9	2+12	c, c, a	Kazman and Lein, 1996; Branlard et al, 2003;
Sidjanka	Yugoslavia	1	7+9	2+12	a, c, a	Vapa and Sanic, 1988;
Sidney	Germany	null	6+8	2+12	c, d, a	Groger et al, 1997;
Siete-cerros-t-66	Mexico	null	22/17+18	2+12	c, k/i, a	Soltes-Rak, 1991; Glu-D1a; Graybosh, 1992; Rabinovich et al, 2000a; Graybosh, 1992
Sieve	Italy	1	6*+8*	2+12	a, w, a	Pogna et al, 1989;
Siglawi-2	Syria	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Silistea	Romania	1	7+9	2+12	a, c, a	Popa et al, 2004
Sillaro	Italy	null/1	7*+8	5+10	c/a, u, d	Pogna et al, 1989;
Silverstar	Australia	1	7+8/17+18/7*+8	2+12/5+10	a, b/i/u, a/d	Rabinovich et al, 2001; Wrigley et al, 2005
Silvius	Austria	null	7+9	5+10	c, c, d	Groger et al, 1997; Bespalov, 1994;
Simbirka	Russia	2*/1	7+9/7+8	2+12/5+10	b/a, c/b, a/d	Morgunov et al, 1990;

Simeto	Italy	null	7+8	null	c, b, i	Anon, 1998;
Simmic-30	Romania	1/null	7+8	5+10	a/c, b, d	Hajima et al, 1989;
Simona	Czech Republic	1/2*	7+9/6+8	2+12	a/b, c/d, a	Gregova et al, 1997; Sasek et al, 1997;
Simvol-odesskii	Ukraine	1/2*	7+8/7+9	5+10	a/b, b/c, d	Ya, 1997; Sobko and Sozinov, 1999;
Sinai-3	Sinai-3	1	6+8	2+12	a, d, a	Rayfuse and Jones, 1993;
SINCHI/3/PF70354/ALD//MES	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Sind-81	Pakistan	1	13+16	5+10	a, f, d	Tahir et al, 1995; Ng and Pogna, 1989;
Sin-jamal	Syria	null	III.	-	c, o,	Anon, 1989; Vallega, 1988;
Sinton	Canada	2*	7+9	5+10	b, c, d	Bushuk, 1997; Dubuc and Boudreau, 1992;
Sinton (CT 440)	Canada	2*	7+9	5+10	b, c, d	Bushuk, 2006;
Sinvalocho	Argentina	1	OE7+8*	2+12	a, al, a	Gianibelli et al, 2002;
Sioux	U.S.A.	2*	6+8	2+12	b, d, a	Graybosh, 1992; Anon, 1998;
Siouxland	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;

Sirena	Russia	null	7+9	2+12	c, c, a	Rabinovich et al, 2001;
Sirena-odesskaya	Ukraine	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Sirente	Italy	1	7	2+12	a, a, a	Pogna et al, 1989;
Siria	Czech Republic	null	7+9	5+10	c, c, d	Sasek et al, 1997; Jost, 1996;
SIRKKU	CIMMYT-31ST IBWSN	1	7+8	2+12	a, b, a	Payne and Pena, 2006;
Siroka	Croatia	1	7+9	2+12	a, c, a	Vapa, 1989;
Sirvlna	Litvania	1	7+9	5+10	a, c, d	Ruzgas and Liutkevicius, 2000;.
Sistar	Italy	1	7/7*+8/7+9	2+12	a, a/u/c, a	Pogna et al, 1989;
Sistar(1)	Italy	1	7	2+12	a, a, a	Pogna et al, 1989
Sistar(2)	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989
Sistar(3)	Italy	1	7+9	2+12	a, c, a	Pogna et al, 1989
SITE//BUC/PVN	CIMMYT-15TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
SITELLA	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

SITELLA	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SITTA	CIMMYT-4TH SAWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
SITTA*2//PSN/BOW	CIMMYT-4TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Sivka	Croatia	1	7+9	5+10	a, c, d	Vapa, 1989;
Sk-26	Yugoslavia	null	13+16	2+12	c, f, a	Galova et al, 2001
Sk-3756-76	Slovak Republic	null	6+8	2+12	c, d, a	Cerny, et al 1989; Galova et al, 2001
Sk-5560	Slovak Republic	1/null	7+9	5+10/2+12	a/c, c, d/a	Sasek et al, 1987;
Skala	Russia	null	7+9	5+10	c, c, d	Morgunov et al, 1990; Rabinovich et al, 2000a;
Skifyanka	Russia	2*/null	7+9	5+10/2+12	b/c, c, d/a	Ya, 1997; Sobko and Sozinov, 1999;
Skopjanka	Macedonia	null	7+9/7+8	2+12	c, c/b, a	Vapa, 1989; Branlard and Le Blank, 1985; Knezevic et al, 1993;
Skopje-18	Macedonia	1	20	-	a, e,	Vallega, 1988; Anon, 1989;
Skorospelka	Russia	1	7+9	5+10	a, c, d	Cornish, 2005;
Skorospelka-1	Russia	null/2*	7+9	2+12	c/b, c, a	Rabinovich et al, 2000a;

Skorospelka-3	Russia	null/2*	7+9	2+12	c/b, c, a	Rabinovich et al, 2000a;
Skorospelka-3-b	Russia	2*/1	7+9	2+12	b/a, c, a	Morgunov et al, 1990;
Skorospelka-95	Ukraine	2*	7/17+18	5+10	b, a/i, d	Rabinovich et al, 2001;
Sk-skopljanka	Macedonia	null	7+9/7+8	2+12	c, c/b, a	Vapa, 1989; Bespalov, 1994; Knezevic et al, 1993;
Skua	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
Slavonija	Croatia	null/1	7+9	2+12	c/a, c, a	Vapa, 1989; Jurkovic et al, 2000;
Slavonka	Croatia	1	7+8	2+12	a, b, a	Vapa, 1989;
Slavyanka Sibiri	Russia	2*/null	7*+9	2+12	b/c, c, d	Morgounov et al 2008
Slavyanka-196	Bulgaria	2*	7+9	5+10	b, c, d	Stoeva et al, 1997; Kazman and Lein, 1996;
Slejpner	Sweden	null	6+8	2+12	c, d, a	Jost, 1996;
Sloboda	Croatia	null	7+9	5+10	c, c, d	Vapa, 1989;
Slovenska-1784	Slovak Republic	null/1	7+9	3+12	c/a, c, b	Gregova et al, 1997;
Slovenska-2	Slovak Republic	null	6+8/7+8	2+12/3+12/5+10	c, d/b, a/b/d	Gregova et al, 1997; Gregova et al, 2004;

Slovenska-200	Slovak Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997;
Slovenska-777	Slovak Republic	1	7+9	3+12	a, c, b	Gregova et al, 1997; Gregova et al, 1999;
Slovenska-b	Slovak Republic	1	7+9/7+8	3+12	a, c/b, b	Gregova et al, 1997; Gregova et al, 1999;
Smena	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Smh-1769	Poland	null	-	5+10	, , d	Waga, 1992;
Smh-3195	Poland	null	6+8	2+12	c, d, a	Waga and Bietz, 1997;
SMT 13	Estonia	2*	7+9	2+12	b, c, a	Tohver et al, 2001, Tohner, 2007;
SMT 13	Estonia	2*	7+9	2+12	b, c, a	Tohver et al, 2001, Tohner, 2007;
SMT 13	Estonia	2*	7+9	2+12	b, c, a	Tohver et al, 2001, Tohner, 2007;
SMT 13	Estonia	2*	7+9	2+12	b, c, a	Tohver et al, 2001, Tohner, 2007;
SMT 13	Estonia	2*	7+9	2+12	b, c, a	Tohver et al, 2001, Tohner, 2007;
Snegurka	Kazakhstan	2*/null	7+9	2+12	b/c, c, a	Morgunov et al, 1990;
Snipe	Australia	null	7*+8	2+12	c, u, a	Wrigley et al, 2005

Snizhana	Ukraine	2*/null	7+9	5+10	b/c, c, d	Rabinovich et al, 2004;
SNK 108	South Africa	2*	7+9	5+10	b, c, d	Manley et al, 1992
Snogg II	Norway	2*	7+8/7+9	2+12/5+10	b, b/c, a/d	Rabinovich et al, 2000b; Uhlen, 1990
Sod-319	Poland	null/1	7+9	2+12	c/a, c, a	Waga and Bietz, 1997;
Sofia	Czech Republic	null	6+8	5+10	c, d, d	Gregova et al, 1997; Sasek et al, 1997;
Sofija	Croatia	1	7+9	5+10	a, c, d	Jurkovic et al, 2000;
Soghat-90	Pakistan	2*	17+18	5+10	b, i, d	Tahir et al, 1995; Bonjean et al, 2001;
Soissons	France	2*	7+8	5+10	b, b, d	Kazman and Lein, 1996; Lookhart et al, 1993; Branlard et al, 2003;
Solar	U.S.A.	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b;
Solida	Slovak Republic	null	7+9	5+10	c, c, d	Rabinovich et al, 2000b; Galova et al, 2001
Solitaire	U.K.	2*/null	17+18	5+10/2+12	b/c, i, d/a	Anon, 1998;
Solitario	Italy	null	13+16	-	c, f,	Piergiovanni and Blanco, 1999; Dencic and Borojevich, 2001;
Somborka	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989; Kolster et al, 19881;

Somme	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Somoni	Tajikistan	2*	7*+8	5+10/2+10	b, u, d/e	Urazaliev,2003; Tahir et al, 1995;
Sonalika	India	2*	7+9	2+12	b, c, a	Anon, 1998; Das et al, 2001; Bhagwat and Bhatia, 1988;
Sonalika	India	2*	7+9	2+12	b, d, a	Ram, 2003;
Sonata	Russia	1	7*+9	5+10	a, c, a	Morgounov et al 2008
Songlen	Australia	1	7+8/13+16	2+12	a, b/f, a	Cornish, 2005;
Songlen-a	Australia	1	13+16	2+12	a, f, a	Lawrence, 1986
Songlen-b	Australia	1	7+8	2+12	a, b, a	Rabinovich et al, 2000b; Lawrence, 1986
Sonora-64	Mexico	1	17+18	5+10	a, i, d	Anon, 1998;
Sonora-64-a	Mexico	null	17+18	2+12	c, i, a	Rabinovich et al, 2000b;
Sopu	Finland	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000a;
Soratnitsa	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Sorbas	Germany	null	7+9	2+12	c, c, a	Groger et al, 1997;

Sorraí	Portugal	2*	7+8	2+12	b, b, a	Igrejas et al, 1999
Southern-belle	U.S.A.	1	7+9	5+10	a, c, d	Lookhart et al, 1993; Anon. 1993d;
Spada	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Spark	U.K.	null	7+8	5+10	c, b, d	Gregova et al, 1997; Cornish, 2005
Sparta	Czech Republic	null	6+8	5+10	c, d, d	Sasek et al, 1987; Sasek et al, 1997;
Spartakus	Austria	2*	7+9	5+10	b, c, d	Groger et al, 1997;
Spartanka	Russia	2*/1	7+9	5+10/2+12/5+12	b/a, c, d/a/h	Morgunov et al, 1990; Anon, 1993c;
Spear	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Spektr	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001; Rogers et al, 1989;
Sperber	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Spica	Australia	null	7+9	5+10	c, c, d	Cornish, 2005;
Spica-a	Australia	null	7+9	5+10	c, c, d	Lawrence, 1986
Spica-b	Australia	2*	23+24	5+10	b, l, d	Lawrence, 1986

Spica-c	Australia	2*	7+9	5+10	b, c, d	Lawrence, 1986
Spica-d	Australia	null	23+24	5+10	c, l, d	McIntosh et al, 1989; McIntosh et al, 1990; Lawrence, 1986
Spinnaker	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Splendeur	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985;
Splendor	U.S.A.	1	OE7+8	5+10	c, al, d	Liu et al 2008
Spokane-chief	U.S.A.	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
Sport	Sweden	2*	14+15	2+12	b, h, a	Johansson et al, 1993;
Sportsman	U.K.	null	7	2+12	c, a, a	Cornish, 2005;
Sprague	U.S.A.	null	7+9	3+12	c, c, b	Lookhart et al, 1993;
Sprint	Italy	1/2*	20/7	2+12/5+10	a/b, a/e, a/d	Pogna et al, 1989;
Squarehead-master-13-4	U.K.	null	20	2+12	c, e, a	Gregova et al, 2004;
Srbijanka	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989;
Srednevolzhskaya	Russia	1	7+9	2+12	a, c, a	Rabinovich et al, 2001; Dencic and Borojevich, 2001;

Sremica	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989; Horvat et al, 2002; Soltes-Rak, 1991; Kolster et al, 19881; Vapa and Sanic, 1988; Dencic, 2001
SRHD/PIFED	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
SRMA/TUI	CIMMYT-6TH SAWYT	1	7+9/17+18	5+10	a, c/i, d	Payne and Pena, 2006;
Srpanjka	Croatia	null	7+8	2+12	c, b, a	Jurkovic et al, 2000;
SST-102	South Africa	1	7+9	5+10	a, c, d	Manley et al, 1992
SST-107	South Africa	2*	7+9	5+10	b, c, d	Randal et al, 1993
SST-116	South Africa	1	7+9	5+10	a, c, d	Randal et al, 1993
SST-124	South Africa	1	7+9	5+10	a, c, d	Randal et al, 1993
SST-136	South Africa	1	7+8	5+10	a, b, d	Manley et al, 1992
SST-16	South Africa	1	13+16	5+10	a, f, d	Randal et al, 1993
SST-23	South Africa	1	13+16	5+10	a, f, d	Randal et al, 1993
SST-25	South Africa	1	6+8	5+10	a, d, d	Randal et al, 1993
SST-3	South Africa	2*	13+16	2+12	b, f, a	Randal et al, 1993

SST-44	South Africa	null	7+8	2+12	c, b, a	Randal et al, 1993
SST-66	South Africa	1	7+8	2+12	a, b, a	Randal et al, 1993
SST-86	South Africa	1	13+16	5+10	a, f, d	Manley et al, 1992
ST-1472-506	China	1	6+8	5+9/2+12	a, d, g/a	He et al, 1992; Khan et al, 1989
ST-2422-464	Italy	1	14+15	5+9	a, h, g	Xue-Yong et al, 2002
ST-777	Czech Republic	2*	7+9	5+10	b, c, d	Sasek et al, 1987;
Stacy	U.S.A.	2*	7+8/7+9	2+12	b, b/c, a	Graybosh, 1992;
Stadler	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Stafford	U.S.A.	2*	7+8	3+12	b, b, b	Graybosh, 1992;
Standard-white	U.K.	null	20	2+12	c, e, a	Gregova et al, 2004;
Stanley	Canada	null	17+18	2+12	c, i, a	Anon, 1998;
Stanton	U.S.A.	2*	7+8	5+10	b, b, d	Pike and MacRitchie, 2004;
Staparka	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Groger et al, 1997;

STAR	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Star	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Rabinovich et al, 2000b;
Star	Iran	2*	b/7+9	2+12/5+10	b, b/c, a/d	Bahraei et al, 2004;
STAR//KAUZ/PVN	CIMMYT-17TH ESWYT	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
STAR//KAUZ/STAR	CIMMYT-29TH IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
STAR//PVN/LUCO-M	CIMMYT-31ST IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
STAR//PVN/STAR	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
STAR//TR771773/SLM	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
STAR/GEN	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Stava	Sweden	2*	7+9	2+12	b, c, a	Johansson et al, 1993;
Steinwedel	Australia	1	20	2+12	a, e, a	Bespalov, 1994; Cornish, 2005
Steklovidnaya-1	Russia	2*	7+9	2+12	b, c, a	Morgunov et al, 1990;
Steklovidnaya-24	Kazakhstan	2*	7*+8	5+10	b, u, d	Urazaliev,2003;

Stephens	U.S.A.	2*	7+9	2+12	b, c, a	Lookhart et al, 1993;
Stepnaya 1	Kazakhstan	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Stepnaya 15	Kazakhstan	1	7*+8	2+12	a, u, d	Morgounov et al 2008
Stepnaya 16	Kazakhstan	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Stepnaya 2	Kazakhstan	null	7*+9	2+12	c, c, d	Morgounov et al 2008
Stepovichka	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Stepowa	Poland	null/1	17+18	2+12/5+10	c/a, i, a/d	Gregova et al, 1999;
Steppa	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Sterna	Macedonia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Stetson	U.K.	1	6+8	2+12	a, d, a	Cornish, 2005;
Stewart-63	Canada	null	7+8	-	c, b,	Anon, 1989; Vallega, 1988; Anon, 1998;
Stiletto	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Stizanka	Yugoslavia	2*	7+8/7+9	5+10	b, b/c, d	Vapa, 1989; Anon, 1998;

Stoa	U.S.A.	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Stockade	Australia	1	7+9	5+10	a, c, d	Lawrence, 1986
Stoddard	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;
Storch	France	1	7+8	2+12	a, b, a	Branlard et al, 2003;
STOZHER	CIMMYT-3RD FAWWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Strada Sibiri	Russia	2*	7*+9	2+12	b, c, a	Morgounov et al 2008
Strampellino	Italy	2*	7+9	2+12	b, c, a	Pogna et al, 1989;
Stramtura	Romania	null	7+8	5+10	c, b, d	Popa et al, 2004
Stratos	Netherlands	null	6+8	2+12	c, d, a	Kolster et al, 1993;
Stretton	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Strumok	Ukraine	2*	7+9	5+10	b, c, d	Sobko and Sozinov, 1999;
Strzelecka	Poland	1	7*+8	2+12	a, u, a	
Strzelecki	Australia	1	7+8	2+12	a, b, a	Cornish, 2007;

Stuart	U.K.	null	6+8	2+12	c, d, a	Cornish, 2005;
Stumpenweizen	Germany	null/2*	7+8	2+12	c/b, b, a	Gregova et al, 2004;
Sturdy	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Lookhart et al, 1993; Rabinovich et al, 2000b;
Sturdy 2K	U.S.A.	2*	7+8	3+12	b, b, b	Shan et al, 2007;
Sturt	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005
Stylet	Australia	1	7+9	5+10	a, c, d	Anon, 1998; Cornish, 2005
Success	U.S.A.	2*	7+8	5+10	b, b, d	Cornish, 2005;
Suceava-84	Romania	null	7+9	5+10	c, c, d	Hagima et al, 1989; Glu-A1c;
SUJATA	CIMMYT-14TH SAWSN	2*	20	2+12	b, e, a	Payne and Pena, 2006;
Sujata	India	null	20/7	2+12	c, a/e, a	Das et al, 2001; Rao et al, 2001;
Sukkula	Finland	2*	7+9	2+12	b, c, a	Cornish, 2005;
Sukkula-ii	Finland	2*	7+9	2+12	b, c, a	Cornish, 2005;
Sul-chinese-spring-hope	U.S.A.	null	-	-	, ,	McIntosh et al, 1990; McIntosh et al, 1989;

Sul-chinese-spring-timstein	U.S.A.	null	-	-	, , k	McIntosh et al, 1989;
Sullivan	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Sultan	Australia	1	20	2+12	a, e, a	Cornish, 2005
Sultan-95	Turkey	2*/1	7	5+10	b/a, a, d	Sanal et al, 2005
Sumadija	Yugoslavia	1	20	2+12	a, e, a	Vapa, 1989;
Sumai-3	China	null	7+8/13+16	2+12/5+10	c, b/f, a/d	He et al, 1992; Anon, 1998;
Summit	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Summit-a	Australia	1	7+9	5+10	a, c, d	Lawrence, 1986
Summit-b	Australia	2*	7+9	5+10	b, c, d	Lawrence, 1986
Sumner	U.S.A.	2*	7+9	5+10	b, c, d	Cornish, 2005
Sun-183-f	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
Sun-190-a	Australia	2*/1	7+8	2+12	b/a, b, a	Cornish, 2005;
Sun-190-b	Australia	2*/1	7+8/17+18	2+12	b/a, b/i, a	Cornish, 2005;

Sun-211-a	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Sun-239-r	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Sun-250-c	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005;
Sun-276-a	Australia	1	7+8	2+12	a, b, a	Cornish, 2005;
Sun-89-d	Australia	1/2*	7+8	2+12	a/b, b, a	Anon, 1998; Glu-A1b;
Sunbird	Australia	null	7+8	2+12/5+10	c, b, a/d	Anon, 1993c; Anon, 1998;
Sunbri	Australia	1	7+8	2+12	a, b, a	Anon, 1998;
Sunbrook	Australia	1	17+18	5+10	a, i, d	Anon, 1993c; Wrigley et al, 2005
Sunco	Australia	1	7+8/7*+8	2+12	a, b/u, a	Cornish, 2005;
Suncuius	Romania	null/1	7+8	2+12	c/a, b, a	Wrigley et al, 2005
Sundance	Canada	1	7+9/7*+8	5+10	a, c/u, d	Ng and Pogna, 1989; Anon, 1998;
Sundor	Australia	null	7+8	5+10/2+12	c, b, d/a	Anon, 1993c; Wrigley et al, 2005
Suneca	Australia	1	17+18	5+10/2+12	a, i, d/a	Anon, 1993c; Anon, 1998; Wrigley et al, 2005

Sunelg	Australia	2*	17+18	2+12	b, i, a	Anon, 1993c; Anon, 1998;
Sunfield	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005; Anon, 1993c;
Sunkota	Australia	1/2*	13+16	2+12	a/b, f, a	Anon, 1998;
Sunkota-a	Australia	1	13+16	2+12	a, f, a	Wrigley et al, 2005
Sunkota-b	Australia	2*	13+16	2+12	b, f, a	Wrigley et al, 2005
Sunland	Australia	1	7+8/7*+8	2+12	a, b/u, a	Anon, 1998; Wrigley et al, 2005
Sunlin	Australia	2*	17+18	2+12	b, i, a	Wrigley et al, 2005
Sunmist	Australia	1	17+18/7+8	2+12/5+10	a, i/b, a/d	Anon, 1998; Wrigley et al, 2005
Sunnan	Sweden	2*	7+9	2+12	b, c, a	Kolster et al, 1993;
Sunsoft-98	Australia	2*	7*+8	2+12	b, u, a	Anon, 1993c; Wrigley et al, 2005
Sunstar	Australia	2*/1	7+8/7*+8	5+10/2+12	b/a, b/u, d/a	Anon, 1998; Wrigley et al, 2005
Sunstate	Australia	1	7+8/17+18	2+12/5+10	a, b/i, a/d	Anon, 1998;
SUNSU	CIMMYT-17TH ESWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;

Sunvale	Australia	1	7+8/7*+8	2+12	a, b/u, a	Anon, 1998; Wrigley et al, 2005
SUPER KAUZ	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
SUPER SERI #1	CIMMYT-31ST IBWSN	1	7+9/17+18	5+10	a, c/i, d	Payne and Pena, 2006;
Super-x	Mexico	2*	17+18	2+12/5+10	b, i, a/d	Rabinovich et al, 2001; Horvat et al, 2002; Galova et al, 2001
Super-zitarka	Croatia	null/1	7+8	2+12	Glu-/a, b, a	Jurkovic et al, 2000;
Super-zlatna	Croatia	1	6+8/7+9	2+12	a, d/c, a	Vapa, 1989; Kolster et al, 19881;
Supreme	Canada	1	7+8/7+9	5+10	a, b/c, d	Anon, 1998; Cornish, 2005
Surgentes-Inta	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Surpresa	Brazil	2*	13+16	2+12	b, f, a	Graybosh, 1992; Anon, 1998;
Susonokomugi	Japan	null/1	7+8	2+12	c/a, b, a	Nakamura, 2000a;
Sutjeska	Yugoslavia	1/null	7+9	5+10	a/c, c, d	Vapa, 1989; Dencic and Borojevich, 2001; Kolster et al, 19881;
Sutlej-86	Pakistan	2*	7+9	5+10	b, c, d	Tahir et al, 1995;
Suwon-11	Korea	1	7+8	2+12	a, b, a	Cornish, 2005

Suwon-189	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Suwon-215	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Suwon-224	Korea	null	7+9	2.2+12	c, c, f	Hyun et al, 2001;
Suwon-236	Korea	null	7+8	5+10	c, b, d	Hyun et al, 2001;
Suwon-250	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Suwon-253	Korea	2*	7+8	2.2+12	b, b, f	Hyun et al, 2001;
Suwon-257	Korea	null	7+8	5+10	c, b, d	Hyun et al, 2001;
Suwon-261	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Suwon-262	Korea	null	7+9	2+12	c, c, a	Hyun et al, 2001;
Suwon-265	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Suwon-267	Korea	null	7+8	5+10	c, b, d	Hyun et al, 2001;
Suyin 10	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
SUZ3/VEE#5	CIMMYT-7TH HRWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;

SUZ6//ALD/PVN	CIMMYT-7TH HRWSN	null	7+8	5+10	c, b, d	Payne and Pena, 2006;
SUZ6//ALD/PVN	CIMMYT-7TH HRWSN	null	7+8	5+10	c, b, d	Payne and Pena, 2006;
SUZ6//WEAVER//TUI	CIMMYT-8TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Suzen-97	Turkey	null	7+8	5+10	c, b, d	Sanal et al, 2005
Suzhou-1	China	null	7+8	2+12	c, b, a	He et al, 1992;
Svetlanka	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Svitava	Czech Republic	null	6+8	5+10	c, d, d	Anon, 1992;
Sw Kronos	Germany	null	17+18	2+12	c, i, a	Groger et al, 2005
Sw Maxi	Germany	null	7+9	5+10	c, c, d	Groger et al, 2005
SW Odei	Australia	1	7+9	5+10	a, c, d	Cornish, 2007;
Sw Odiel	Australia	1	7+9	5+10	a/b, c, d	Wrigley et al, 2005
SW23//PGO//K134(60)//VEE	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
Swift	Australia	null/2*	7+8/7*+8	2+12	c/b, b/u, a	Anon, 1998; Wrigley et al, 2005

Swifta	Netherlands	null/1	6+8	2+12	c/a, d, a	Kolster et al, 1993;
Sword	Australia	1	20/7+8	5+10/2+12	a, e/b, d/a	Cornish, 2005;
Sybakovskaya 3	Russia	2*	7*+9	5+10	b, c, a	Morgounov et al 2008
Szekacs	Hungary	2*/1	7+9/17+18/7+8	5+10/2+12	b/a, c/i/b, d/a	Gregova et al, 2004;
Szekacs-1055	Hungary	1	7+9	5+10	a, c, d	Bedo and Lang, 2005
Szekacs-1242	Hungary	null	7+9/7+8	2+12/5+10	c, c/b, a/d	Bedo and Lang, 1997; Gregova et al, 1999; Bedo and Lang, 2005
Szekacs-17	Hungary	2*/null	7+9	2+12	b/c, c, a	Gregova et al, 1999;
Szekacs-19	Hungary	null	17+18/7+9	2+12	c, i/c, a	Gregova et al, 1999;
T 8020	Norway	2*	13+16	5+10	b, f, d	Jackson et al, 1996;
T Polonicum-ZB	Algeria	null	20	-	c, e, -	Carillo et al, 2005;
T.00055	CIMMYT-4TH HRWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
T-1456	Australia	2*	20/j	2+12	b, e/j, a	Rayfuse and Jones, 1993;
T-1511	Ethiopia	null	III.	-	, o,	McIntosh et al, 1990; McIntosh et al, 1991; McIntosh et al, 1991; McIntosh et al, 1989;

T-1605	Germany	j	-	-	j, ,	McIntosh et al, 1990; McIntosh et al, 1989;
T-4	South Africa	null	7+8/7+9	2+12	c, b/c, a	Randal et al, 1993
T-4(a)	South Africa	null	7+8	2+12	c, b, a	Manley et al, 1992
T-4(b)	South Africa	null	7+9	2+12	c, c, a	Manley et al, 1992
T-64-2w	Tunesia	null	7+9	2+12	c, c, a	Cornish, 2005;
T-64-2-w	Tunesia	null	7+9	2+12	c, c, a	Cornish, 2005
Taava	Finland	1	7+9	5+10	a, c, d	Cornish, 2005;
Tabor	Germany	null	7	2+12	c, a, a	Rogers et al, 1989;
Tadepi	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Taganrog-buck-balcarce	Argentina	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Taganrog-sel.buck	Argentina	null	20	-	c, e,	Anon, 1989; Vallega, 1988;
Tahirova-2000	Turkey	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b; Sanal et al, 2005
Tahti	Finland	1	7+9	5+10	a, c, d	Cornish, 2005;

Taifun	Germany	1	7+9	2+12	a, c, a	Groger et al, 2005
Tailorbird	Australia	1	17+18	5+10	a, i, d	Wrigley et al, 2005
Tainui	New Zealand	1/null	14+15	2+12	a/c, h, a	Cornish, 2005;
Taishan-1	China	null	7+8	2+12/5+9	c, b, a/g	Wang et al, 1993; Xue-Yong et al, 2002
Taishan-4	China	null/2*	7+9	2+12/4+12	c/b, c, a/c	Wang et al, 1993; Xue-Yong et al, 2002
Taishan-5	China	2*	7+8	5+9/2+12	b, b, g/a	Wang et al, 1993; Xue-Yong et al, 2002
Taiyuan-136	China	2*	7+9	5+10	b, c, d	Xue-Yong et al, 2002
Taizhong-2	China	null	7*+8	2+12	c, u, a	He et al, 1992;
Taizhong-23	China	null	7+9	2+12	c, c, a	He et al, 1992;
Taizhong-29	China	null	7+9	2+12	c, c, a	He et al, 1992;
Taizhong-31	China	null	7+9	2+12	c, c, a	He et al, 1992;
Taizhong-32	China	1	20	2+12	a, e, a	He et al, 1992;
Tajan	Iran	2*	13+16	5+10	b, f, d	Bahraei et al, 2004;

Takahe	New Zealand	d/null	6+8	2+12	d/c, d, a	Griffin, 1994; Anon, 1993c; Griffin et al, 2001; Anon, 1998;
Takari	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Takunekomugi	Japan	1	6+8	4+12	a, d, c	Nakamura, 2000a; Anon, 1998;
Talbot	Canada	1	7+9	2+12	a, c, a	Cornish, 2005;
Talent	France	null	7+9	2+12/4+12	c, c, a/c	Borojevic, 1990; Lookhart et al, 1993; Pogna et al, 1989; Dencic and Borojevich, 2001;
TAM 200	CIMMYT-3RD FAWWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Tam-101	U.S.A.	2*	6+8	5+10	b, d, d	Graybosh, 1992; Lookhart et al, 1993;
Tam-105	U.S.A.	null	7+8	2+12	c, b, a	Graybosh, 1992;
Tam-106	U.S.A.	2*	7+8	2+12	b, b, a	Graybosh, 1992;
Tam-107	U.S.A.	2*	7+8	2+12	b, b, a	Graybosh, 1992;
Tam-108	U.S.A.	2*	7+8	2+12	b, b, a	Graybosh, 1992;
Tam-110	U.S.A.	2*	7+8	2+12	b, b, a	Shan et al, 2007;
Tam-111	U.S.A.	2*	7+9	2+12	b, c, a	Shan et al, 2007;

Tam-112	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
Tam-200	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
TAM200/PRL	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
TAM200/PRL	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
TAM200/PRL	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TAM200/TRAP#1	CIMMYT-14TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
TAM200/TUI	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
TAM200/TUI	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TAM200/TUI	CIMMYT-29TH IBWSN	2*	7+9	2.1+10	b, c, n	Payne and Pena, 2006;
TAM200/TUI	CIMMYT-29TH IBWSN	1	7+9	2.1+10	a, c, n	Payne and Pena, 2006;
TAM200/TURACO	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
TAM200/TURACO	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Tam-202	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992; Groger et al, 1997;

Tam-302	U.S.A.	2*	7+9	3+12	b, c, b	Shan et al, 2007;
Tam-303	U.S.A.	2*	7+8	2+12	b, b, a	Shan et al, 2007;
Tam-400	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Tambor	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Tamega	Portugal	1	7+9	5+10	a, c, d	Igrejas at al, 1999
Tamex	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;
Tammi	Finland	2*/null	7+9	5+10	b/c, c, d	Rabinovich et al, 2000b;
Tammi-ii	Finland	d	7+9	-	d, c/d,	Rabinovich et al, 2000b;
Tammin	Australia	2*	17+18	2+12	b, i, a	Rabinovich et al, 2001;
Tamoi-inia	Chile	2*	17+18	5+10	b, i, d	Vozquez et al, 2003
TAN//BUC/PVN	CIMMYT-15TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
TAN/PEW//SARA	CIMMYT-16TH SAWSN	2*	17+18/7+9	5+10	b, i/c, d	Payne and Pena, 2006;
Tancred	New Zealand	1	7+9	5+10	a, c, d	Griffin, 1994; Griffin et al, 2001;

Tandem	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Tandojam-83	Pakistan	2*	17+18	2+12	b, i, a	Tahir et al, 1995; Branlard et al, 2003;
Tango	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985;
Tanori-71	Mexico	2*	17+18	5+10	b, i, d	Cornish, 2005;
Tapdongmil	Korea	null	7+8	5+10	c, b, d	Hyun et al, 2001;
Tapio	Finland	null	7+9	5+10	c, c, d	Branlard et al, 2003;
Tapio	Finland	null	7+9	5+10	c, c, d	Sontag et al, 1996;
Tappo	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Tara	U.K.	null	7	4+12	c, a, c	Cornish, 2005;
Tara-2002	U.S.A.	2*	17+18	5+10	b, i, d	Anon, 2006;
Taraggi	Azerbaijan	2*	7+9	2+12	b, c, a	Urazaliev,2003;
Tarariras	Uruguay	2*	7*+8	5+10	b, u, d	Vozquez et al, 2003
Taras	Germany	null	7+9	5+10	, c, d	Waga, 1992; Sobko and Sozinov, 1999;

Tarasovskaya-29	Russia	1/2*	7+9	5+10	a/b, c, d	Morgunov et al, 1990; Ya, 1997;
Tarasovskaya-87	Russia	1	7+8/7+9	5+10	a, b/c, d	Ya, 1997;
Tarasovskaya-97	Russia	2*/null	7+8	5+10	b/c, b, d	Anon, 2004;
Tarasovskaya-ostistaya	Russia	1	7+9	5+10	a, c, d	Anon, 2004; Branlard et al, 2003;
Tarasque	France	2*	7+9	5+10	b, c, d	Branlard and Le Blank, 1985;
Tarquin	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Tarsa	Australia	2*	7+9	2+12	b, c, a	Cornish, 2005;
Tarskaya 6	Russia	2*	7*+9	2+12	b, c, d	Morgounov et al 2008
Tarskaya 7	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Tarso	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Lookhart et al, 1993;
Tarso	Sweden	2*	7+9	5+10	b, c, d	Johansson et al, 1993;
Tarso	Sweden	null	7+9	5+10	c, c, d	Johansson et al, 1993;
Tascosa	U.S.A.	2*	7+8	5+10	b, b, d	Graybosh, 1992;

Tasman	Australia	2*	7+8/7*+8	2+12	b, b/u, a	Wrigley et al, 2005
Tatiara	Australia	1	7+9	2+12	a, c, a	Cornish, 2005;
Tatiara-ea-9-6	Australia	1	7+9	2+12	a, c, a	Cornish, 2005;
Taurus	Litvania	1	7+9	5+10	a, c, d	Paplauskiene and Ruzgas, 2002;
Taurus	U.K.	null	7	2+12	c, a, a	Kolster et al, 1993;
Taw-119452	Germany	null	7+9	5+10	c, c, d	Waga and Bietz, 1997;
Taw-1-22635-82	Germany	null	7+9	-	, c,	Waga, 1992;
Taw-1-22853-82	Germany	null	7+9	5+10	, c, d	Waga, 1992;
Taylor	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Teal	Australia	2*	20	5+10	b, e, d	Cornish, 2005;
Tejo	Portugal	null	7+8	5+10	c, b, d	Igrejas at al, 1999
Telciu	Romania	1	7j	5+10	a, aj, d	Popa et al, 2004
Telemark	U.S.A.	2*	7+9	5+10	b, c, d	Cornish, 2005;

Templar	U.K.	null	7	2+12	c, a, a	Knezevic et al, 1993;
Tena	Croatia	1	7+9	5+10/2+12	a, c, d/a	Vapa, 1989; Popa et al, 2004
Tendoy	U.S.A.	1/2*	7+9	5+10	a/b, c, d	Graybosh, 1992;
Tenmarq	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Graybosh, 1992; Rabinovich et al, 2000b;
Tenant	Australia	null	6+8	2+12	c, d, a	Wrigley et al, 2005
Tenor	France	null	7+9/20	2+12	c, c/e, a	Pogna et al, 1989; Kolster et al, 1993; Anon, 1998;
TEPOCA T 89	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Tepoca-t-89	Mexico	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Tera	Finland	1	7+9	5+10	a, c, d	Cornish, 2005;
Teregova	Romania	2*	7+9	2+12	b, c, a	Popa et al, 2004
Teremok	Kazakhstan	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
Terena	Brazil	1	17+18	5+10	a, i, d	
Terenzio-17077	Italy	null	20	2+12	c, e, a	Rayfuse and Jones, 1993;

Tern	Australia	1	7+8	2+12	a, b, a	Cornish, 2005
Terra	Australia	1	17+18	2.2+12	a, i, f	Lawrence, 1986
TERREMOTO	CIMMYT-29TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Tertsiya	Russia	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Tetra-canthatch	Canada	null	7+9	2+12*/2+12	c, c, j/a	Anon, 1998;
Tetri-doli-35-4	Georgia	1	7+9	5+10/2+12	a, c, d/a	Gregova et al, 1999;
TEVEE 2	CIMMYT-16TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Tevere	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Texred	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Tezanos Pinto Precos	Argentina	2*	7+8	2+12/5+10	b, b, a/d	Anon, 1998; Vozquez et al, 2003
Thasos	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996; Ng and Pogna, 1989;
Thasos	Sweden	1	7+9	5+10	a, c, d	Johansson et al, 1993;
Thatcher	U.S.A.	2*	7+9	5+10	b, c, d	Bushuk, 1997; Anon, 1998; Rabinovich et al, 2000a;

THB/2*KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
THB/5/ALD/3/FKN/H570.71/ /FKN/4/MAD/CNT7/6/PF8215	CIMMYT-7TH HRWSN	2*	17+18/7+9	5+10	b, i/c, d	Payne and Pena, 2006;
THB/CEP7780	CIMMYT-7TH HRWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
THB/CEP7780//SHA4/LIRA	CIMMYT-8TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
THB/FASAN//FASAN	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
THB/KEA//SKAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Thermidor	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985; Branlard et al, 2003;
Thesee	France	null	6+8/7+8	2+12	c, d/b, a	Kazman and Lein, 1996;
Thomas Aconcagua	Argentina	2*	7*+8/7+9	5+10	b, u/c, d	Gianibelli et al, 2002; Dubcovsky et al, 2004
Thomas Nevado	Argentina	2*	7+9	5+10	c, c, d	Liu et al 2008
Thomas Tronador	Argentina	2*	17+18	5+10	b, i, d	Gianibelli et al, 2002;
Thomas Tupungato	Argentina	2*	6+8	2+12	b, d, a	Gianibelli et al, 2002;
Thornbill	Australia	null	7*+8	2+12	c, u, a	Wrigley et al, 2005

Thorne	U.S.A.	1	7+8/6+8	2+12	a, b/d, a	Graybosh, 1992;
Thunderbird	U.S.A.	2*	13+16	5+10	b, f, d	Graybosh, 1992;
Thunderbolt	U.S.A.	2*	7+8	2+12	b, b, a	Shan et al, 2007;
TIA.1	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TIA.2	CIMMYT-4TH SAWYT	2*	13+16	2+12	b, f, a	Payne and Pena, 2006;
TIA.2/KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Tianshui-871	China	null	17+18	2+12	c, i, a	He et al, 1992;
Tianshui-872	China	1	7+8	5+10	a, b, d	He et al, 1992;
Tianshui-873	China	1	6*+8*	2+12	a, w, a	He et al, 1992; Khan et al, 1989
Tiberio	Italy	1	7*+8	5+10	a, u, d	Pogna et al, 1989;
Tibula	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Tigre	Portugal	2*	17+18	5+10	b, i, d	Igrejas at al, 1999
Tigris	Germany	null	7+9	5+10	c, c, d	Groger et al, 2005

Tilek	Kyrgyzstan	2*	13+16	5+10	b, f, d	Urazaliev,2003;
TILHI	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TILHI	CIMMYT-31ST IBWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Tillio	Italy	1	7+8	2+12	a, b, a	Stoeva et al, 1997; Anon, 1998;
Timgalen	Australia	1	7+8/7*+8	2+12	a, b/u, a	Lawrence, 1986
Timmo	Sweden	2*	6+8	2+12	b, d, a	Cornish, 2005;
Timone	Italy	1	17+18	5+10	a, i, d	Pogna et al, 1989;
Timpanas	Portugal	null	6+8	-	c, d,	Vallega and Mello-Sampayo 1987;
Timson	Australia	1	13+16	2+12	a, f, a	Cornish, 2005;
Timstein	U.S.A.	2*	7+8/7+9	5+10	b, b/c, d	Anon, 1998;
Timwin	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
TINAMOU	CIMMYT-7TH HRWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Tinamou	Mexico	2*	17+18	5+10	b, i, d	Rabinovich et al, 2000b; Anon, 1993c;

Tincurrin	Australia	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993; Anon, 1998;
Tinos	Germany	1	7+9	5+10	a, c, d	Kazman and Lein, 1996; Sobko and Sozinov, 1999;
Tira	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
Tiritea	New Zealand	2*/null	7+9	5+10	b/c, c, d	Griffin, 1994; Griffin et al, 2001;
Tiroler-begrannter-binkelweizen	Austria	1	13+16	2+12	a, f, a	Gregova et al, 1999;
Tiroler-mittelfrueher-binkel	Austria	1	7+8	2+12	a, b, a	Rayfuse and Jones, 1993; Vapa and Sanic, 1988;
Tisa	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989;
Tita	Italy	1	7	2+12	a, a, a	Pogna et al, 1989; Lookhart et al, 1993;
Titan	Australia	1	17+18	2+12/5+10/2.2+12	a, i, a/d/f	Lookhart et al, 1993
Titan	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Titan-a	Australia	1	17+18	2+12	a, i, a	Cornish, 2005
Titan-b	Australia	1	17+18	5+10/2.2+12	a, i, d/f	Cornish, 2005
Titano	Italy	1	20	2+12	a, e, a	Pogna et al, 1989;

Titien	France	null	7+9	5+10	c, c, d	Branlard et al, 2003;
Tito	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Titus	Austria	null	6+8	5+10	c, d, d	Groger et al, 1997;
Tiulesti	Romania	1	7+9	2+12	a, c, a	Popa et al, 2004
Tivoli	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Tjalve	Sweden	2*	7+9	5+10	b, c, d	Flæte, , 1996;
TJB368.251/BUC//BUC/CHRC	CIMMYT-29TH IBWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
TJB368.251/BUC//BUC/CHRC	CIMMYT-4TH SAWYT	null	7+9	2.2+12	c, c, f	Payne and Pena, 2006;
TJB368.251/BUC//C	CIMMYT-16TH SAWSN	2*/1	17+18/7+9	2+12/5+10	b, i/c, a/d	Payne and Pena, 2006;
TJB368.251/BUC//CUPE	CIMMYT-14TH SAWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
TJB368.251/BUC//CUPE	CIMMYT-15TH SAWSN	2*	7+9/17+18	2+12	b, c/i, a	Payne and Pena, 2006;
TJB368.251/BUC//CUPE	CIMMYT-4TH SAWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
TJB368.251/BUC//KAUZ/3/KAUZ	CIMMYT-31ST IBWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;

TJB368.251/BUC//O	CIMMYT-16TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
TJB368.251/BUC//OCI	CIMMYT-14TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
TJB368.251/BUC//OCI	CIMMYT-15TH SAWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
TJB368.251/BUC//OCI	CIMMYT-15TH SAWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
TJB368.251/BUC//OCI	CIMMYT-17TH ESWYT	null	7+8	2+12	c, b, a	Payne and Pena, 2006;
TJB368.251/BUC//OCI	CIMMYT-29TH IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
TJB368.251/BUC//THB/KEA	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TJB368.251/BUC//TURACO	CIMMYT-14TH SAWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
TJB368.251/BUC//TURACO	CIMMYT-29TH IBWSN	null	7+9	2+12/5+10	c, c, a/d	Payne and Pena, 2006;
TJB368.251/BUC//V81608	CIMMYT-15TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
TJB368.251/BUC//V81608	CIMMYT-29TH IBWSN	null/1	17+18	2+12	c/a, i, a	Payne and Pena, 2006;
TJB368.251/BUC//V81608	CIMMYT-29TH IBWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
TJB368.251/BUC//V81608	CIMMYT-29TH IBWSN	1	7+9/17+18	5+10	a, c/i, d	Payne and Pena, 2006;

TJB916.46/CB306/ /2*MHB/3/BUC/4/2*TUI	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
TJB916.46/CB306/ /2*MHB/3/BUC/4/CHIL/5/BUC/PVN	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Tjelvar	Sweden	2*	6+8	2+12	b, d, a	Johansson et al, 1993;
Tm-56	Australia	2*	7+8	2+12	b, b, a	Anon, 1998;
TOB/ERA//TOB/CNO67/ 3/PLO/4/VEE#5/5/KAUZ	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Tobari-66	Mexico	1	7+8/OE7+8*	5+10	a, b/al, d	Rabinovich et al, 2000b; Cornish, 2005
TOBARITO M 97	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Todd	U.S.A.	2*	7	5+10	b, a, d	Graybosh, 1992;
TODY//BUC/BJY	CIMMYT-15TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
TODY//BUC/CHRC	CIMMYT-15TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
TODY/BAU	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TODY/BAU	CIMMYT-15TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Tohoku-1	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;

Tohoku-103	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Tohoku-126	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Tohoku-143	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Tohoku-19	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a; Rabinovich et al, 2000a;
Tohoku-34	Japan	1/null	7+8	2+12	a/c, b, a	Graybosh, 1992; Nakamura, 2000a;
Tohoku-48	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Tohoku-67	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Tohoku-77	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Tohoku-79	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a;
Tohver Eka	Estonia	2*	6+8/7+9	2+12/5+10	b, d/c, a/d	Tohver et al, 2001, Tohner, 2007;
Tokai-75	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Tokmachanka	Russia	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2000a;
Tomahawk	U.S.A.	2*	7+9	2+12	b, c, a	Shan et al, 2007;

Tomas-catedral	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Tomas-tronador	Argentina	2*	17+18	5+10	b, i, d	Vozquez et al, 2003
Tomas-tupungato	Argentina	2*	6+8	2+12	b, d, a	Dubcovsky et al, 2004
Tombola	Netherlands	null	7	2+12	c, a, a	Kolster et al, 1993;
Tomclair	France	null	20	-	c, e,	Branlard and Le Blank, 1985;
Tommaso	Italy	null	7*+8	5+10	, u, d	Pogna et al, 1989;
Tonic	U.K.	null	7+8	5+10	c, b, d	Branlard and Le Blank, 1985;
Tonkawa	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Top	France	null	7+8	3+12	c, b, b	Branlard et al, 2003;
Topas	Germany	null	6+8	5+10	c, d, d	Kazman and Lein, 1996;
Topaz	Romania	null	7+8	-	c, b,	Vallega, 1988; Anon, 1989;
Topaze	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985;
Toquifen-s	Chile	2*	17+18	2+12	b, i, a	Cornish, 2005;

Torero	Spain	null	7+15	2+12	c, z, a	Kazman and Lein, 1996; Igrejas et al, 1999
Torfrida	U.K.	1	17+18	5+10	a, i, d	Anon, 1998; Griffin et al, 2001;
TORIK	CIMMYT-3RD FAWWYT	null	13+16	5+10	c, f, d	Payne and Pena, 2006;
Toro	Netherlands	1	7	5+10	a, a, d	Kolster et al, 1993; Waga and Bietz, 1997;
Toronto	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996;
Toropi	Brazil	2*	7+9	5+10	b, c, d	Vozquez et al, 2003
Torre	Portugal	1	7	2+12	a, a, a	Pogna et al, 1989;
Torre-nuova	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Torres	Australia	2*	7+8	2+12	b, b, a	Sasek et al, 1997; Anon, 1998;
Torysa	Slovak Republic	null	7+8	2+12	c, b, a	Gregova et al, 1997;
Tosca	South Africa	2*	6+8	5+10	b, d, d	Rabinovich et al, 2000b;
Touko	Finland	null	7+8	5+10	c, b, d	Cornish, 2005;
TOW/SARA//BAU	CIMMYT-7TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;

TOW/SARA//BAU	CIMMYT-7TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TOWPE	CIMMYT-14TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
Toyohokomugi	Japan	2*	7+8	2+12	b, b, a	Nakamura, 2000a;
Tr.dn	Bulgaria	r	-	-	Glu-B1r, ,	McIntosh et al, 1988;
Tr.dn	Ethipia	null	23+28/III.	-	, p/o,	McIntosh et al, 1988;
Tr.dn	Germany	j	II.	-	j, n,	McIntosh et al, 1988;
Tr.dn	India	i	-	-	i, ,	McIntosh et al, 1988;
Tr.dn	Iran	null	I.	-	, m,	McIntosh et al, 1988;
Tr.dn	Morocco	null	V.	-	, q,	McIntosh et al, 1988;
Tr.dn	Sudan	5+12	-	-	h, ,	McIntosh et al, 1988;
TR810200	CIMMYT-14TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Trader	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Trane	Germany	null	6+8	2+12	c, d, a	Sasek et al, 1997;

Transilvania-1	Romania	null	7+9	2+10	c, c, e	Hagima et al, 1989;
Transit	Germany	1	6+8	2+12	a, d, a	Kazman and Lein, 1996;
Transvaal	South Africa	2*	13+16	5+10	b, f, d	Anon, 1998;
TRAP#1*2/SNIP	CIMMYT-8TH HRWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
TRAP#1/BOW	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
TRAP#1/BOW	CIMMYT-7TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
TRAP#1/BOW//PFAU	CIMMYT-29TH IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Trapio	Portugal	2*	7+9	5+10	b, c, d	Igrejas at al, 1999
Trapper	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Trebbo	Italy	1	7*+8	2+12	a, u, a	Pogna et al, 1989; Gregova et al, 1999;
Trebisovska-76	Slovak Republic	null	17+18	3+12	c, i, b	Gregova et al, 1997;
Trego	U.S.A.	2*	13+16	5+10	b, f, d	Pike and MacRitchie, 2004;
Tremes-preto	Portugal	1	20	-	a, e,	Vallega and Mello-Samayo, 1987; McIntosh et al, 1988;

Tremez-molle	Portugal	null	7*+8/y	-	c, u/y,	Vallega Mello-Sampayo 1987; McIntosh et al, 1991;
Tremez-rijo	Portugal	null	20	-	c, e,	Vallega and Mello-Samayo, 1987; Bonjean et al, 2001;
Tremie	France	null	6+8	3+12	c, d, b	Kazman and Lein, 1996; Branlard et al, 2003;
Trento	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Tres	U.S.A.	null	6	2+12	c, an, a	Rayfuse and Jones, 1993;
Tribun	France	null	6+8	3+12	c, d, b	Kazman and Lein, 1996;
Trida	France	1	7+9	5+10	a, c, d	Anon, 1998; Igrejas at al, 1999
Trident	Australia	1	7+9	5+10	a, c, d	Cornish, 2005;
Trigo-br-10-formosa	Brazil	null	17+18	5+10	c, i, d	Vozquez et al, 2003
Trigo-br-18-terena	Brazil	1	17+18	5+10	a, i, d	Vozquez et al, 2003
Trigo-br-23	Brazil	null/2*	17+18	2+12	c/b, i, a	Vozquez et al, 2003
Trigo-br-26-sao-gotardo	Brazil	1/2*	7+9	5+10	a/b, c, d	Vozquez et al, 2003
Trigo-br-33-cuara	Brazil	1	7+9	5+10	a, c, d	Vozquez et al, 2003

Trigo-br-40-tuiuca	Brazil	1	7+8	5+10	a, b, d	Vozquez et al, 2003
Trigo-del-pais	Spain	2*	13+16	2+12	b, f, a	Ruiz et al, 2002;
Triller	Australia	null/2*	7*+8	2+12	c/b, u, a	Wrigley et al, 2005
Trinakria	Italy	null	20	-	c, e,	Piergiovanni and Blanco, 1999; Vallega and Waines, 1987;
Trio	France	null	7	2+12	c, a, a	Branlard and Le Blank, 1985;
Triplet	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Tripshiro	Libya	null	7+8	-	c, b,	Vallega, 1988; Anon, 1989;
Triso	Germany	1	7+9	2+12	a, c, a	Graybosh, 1992
Tristan	Germany	null	7+9	2+12	c, c, a	Kazman and Lein, 1996;
Triumph	U.S.A.	1	7+9	3+12	a, c, b	Graybosh, 1992; Lookhart et al, 1993;
Triumph-64	U.S.A.	2*	7+9	3+12	b, c, b	Graybosh, 1992;
Trl-chinese-spring-1ds.1rl-imperial	U.S.A.	R1	-	-	sec-3, ,	Rabinovich et al, 2000b; McIntosh et al, 1990;
Troll	Sweden	2*	14+15	2+12	b, h, a	Kazman and Lein, 1996;

Troyan	Ukraine	1/null	7+8/7+9	5+10	a/c, b/c, d	Rabinovich et al, 2004;
Trumbull	U.S.A.	null	6+8	2+12	c, d, a	Graybosh, 1992;
Trymm	Norway	2*/1	7+9	2+12	b/a, c, a	Rabinovich et al, 2000b;
Tschemaks-marchfelder	Austria	null	7+9/6+8	2+12/4+12	c, c/d, a/c	Gregova et al, 1999;
Tselinnaya-20	Kazakhstan	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Tselinnaya-21	Kazakhstan	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Tselinnaya-24	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005;
Tselinnaya-26	Kazakhstan	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Tselinnaya-3-s	Kazakhstan	2*	7+9	2+12	b, c, a	Absattarova, 2005; Bepalov, 1994;
Tselinnaya-60	Kazakhstan	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Tselinnaya-yubileinaya	Kazakhstan	2*	7+9	5+10	b, c, d	Absattarova, 2005; Bepalov, 1994;
Tselinogradka	Kazakhstan	2*/null	7+8/7+9	5+10/2+12	b/c, b/c, d/a	Morgunov et al, 1990;
TSH/DOVE//CMH82.4	CIMMYT-16TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;

TSH/DOVE//CMH82.493	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
TSH/DOVE//FASAN/3/FASAN	CIMMYT-29TH IBWSN	2*	7+9	2+12/5+10	b, c, a/d	Payne and Pena, 2006;
TSH/DOVE//FASAN/3/FASAN	CIMMYT-30TH IBWSN	1	6+8	5+10	a, d, d	Payne and Pena, 2006;
TSH/DOVE//HD2329	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
TSH/DOVE//KAUZ/3/BCN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Tsyganka	Ukraine	2*	7	5+10	b, a, d	Sobko and Sozinov, 1999;
TTC	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
Tua	Portugal	2*	17+18	5+10	b, i, d	Morgunov, et al 1990
TUC/MON//VEE/3/LIRA	CIMMYT-14TH SAWSN	1/2*	17+18	5+10	a/b, i, d	Payne and Pena, 2006;
Tucumano-granivo	Argentina	2*	7+9/7*+8	5+10	b, c/u, d	Gianibelli et al, 2002; Igrejas at al, 1999
Tudest	Italy	null	6*+8*	2+12*	c, w, j	Pogna et al, 1989; Pogna et al, 1989
Tugela	South Africa	2*	7+8	5+10	b, b, d	Cornish, 2005;
Tui	Australia	1	7+9	2+12	a, c, a	Cornish, 2007;

TUI	CIMMYT-4TH HRWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Tui	Mexico	2*	7+9	5+10	b, c, d	Cornish, 2005
TUI/NKCH//TUI	CIMMYT-14TH SAWSN	2*/1	7+9/7+8	5+10	b, c/b, d	Payne and Pena, 2006;
TUI/OPATA//OPATA/BOW	CIMMYT-14TH SAWSN	2*/1	13+16/7+9	2+12	b, f/c, a	Payne and Pena, 2006;
TUI/OPATA//OPATA/BOW	CIMMYT-14TH SAWSN	2*	7+9	5+10/2+12	b, c, d/a	Payne and Pena, 2006;
TUI/PYN//RAYON	CIMMYT-15TH SAWSN	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Tuiuca	Brazil	1/null	7+8	5+10	a/c, b, d	Vozquez et al, 2003
Tukan	Germany	null	6+8	2+12/5+10	c, d, a/d	Rogers et al, 1989; Rogers et al, 1989
Tukan-inia	Chile	null	-	2+12	, , a	Zuniga et al, 2004
Tulaikovskaya-1	Russia	2*	7+8/7+9/17+18	2+12/5+10	b, b/c/i, a/d	Rabinovich et al, 2001;
Tulatai-maitai	China	null	20	-	c, e,	Vallega, 1988; Anon, 1989;
Tuleevskaya	Russia	1	7*+8	2+12	a, u, d	Morgounov et al 2008
Tullio	Italy	1	7*+8/7+8	2+12/3+12	a, u/b, a/b	Pogna et al, 1989; Stoeva et al, 1997; Pogna et al, 1989

Tulongbi	China	null	7+8	2+12	c, b, a	He et al, 1992;
Tulsa	Austria	1	7+9	2+12	a, c, a	Groger et al, 2005
Tulunskaya-12	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001; Anon, 1998;
Tundra	Netherlands	null	6+8	2+12	c, d, a	Kolster et al, 1993;
TURACO	CIMMYT-4TH HTWYT	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
TURACO/CHIL	CIMMYT-4TH HTWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
Turbo	Germany	1	7	5+10	a, a, d	Rabinovich et al, 2000b;
Turda-195	Romania	null	7+9	5+10	c, c, d	Hagima et al, 1989; Popa et al, 2004
Turda-81	Romania	2*	7+9	5+10	b, c, d	Hagima et al, 1989; Rabinovich et al, 2000a;
Turkey	U.S.A.	1/2*	7+8/7+9	2+12	a/b, b/c, a	Graybosh, 1992;
TURKEY 13	CIMMYT-3RD FAWWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
Turkey-1473	Turkey	1	7+8	2+12	a, b, a	Cornish, 2005;
Turkmen	Turkey	2*	7+8	2+12	b, b, a	Sanal et al, 2005

Turkmenbashi	Turkmenistan	2*/1	7+9	5+10	b/a, c, d	Urazaliev,2003;
Turnpike	U.K.	1	17+18	3+12/5+10	a, i, b/d	Anon. 1993d
Turpin-7	South Africa	2*	7+9	2+12	b, c, a	Cornish, 2005;
Tw-1	India	1	20	5+10	a, e, d	Bhagwat and Bhatia, 1988;
TX71A1039.V1*3/AMI	CIMMYT-3RD FAWWYT	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Txgh-12588	U.S.A.	2*	7+8	2+12	b, b, a	Graybosh, 1992;
Tyee	U.S.A.	2*	7+9/6+8	5+10/2+12	b, c/d, d/a	Lookhart et al, 1993; Rayfuse and Jones, 1993; Rayfuse and Jones, 1993
Tyler	U.S.A.	2*	7+9	2+12	b, c, a	Lookhart et al, 1993;
TZPP/SERI//BUC	CIMMYT-15TH SAWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
Ubero	Portugal	null	7+9	5+10	c, c, d	Igrejas at al, 1999
Ucrd-01-1	U.S.A.	null	-	5+10	, , d	Anon, 2003;
Ucrd-01-2	U.S.A.	null	-	5+10	, , d	Anon, 2003;
Ucrd-01-3	U.S.A.	null	-	5+10	, , d	Anon, 2003;

Ucrd-01-4	U.S.A.	null	-	5+10	, , d	Anon, 2003;
Ucrd-01-5	U.S.A.	null	-	2+12	, , a	Anon, 2003;
Ucrd-01-6	U.S.A.	null	-	2+12	, , a	Anon, 2003;
Udvaros-8	Hungary	2*	22/7+9	5+10	b, k/c, d	Rabinovich et al, 2004; Bedo and Lang, 2005
Ugar khapli	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
UHU	CIMMYT-15TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
Ujjain progeny 6	India	null	20	-	c, e, -	Oak et al, 2004;
Ujjain progeny 9	India	2*	20	-	b, e, -	Oak et al, 2004;
Ukrainka	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Sobko and Sozinov, 1999; Rabinovich et al, 2000a; Gregova et al, 1999;
Ukrainka-odesskaya	Ukraine	1	7+8	5+10	a, b, d	Ya, 1997;
Ulblinka-25	Kazakhstan	2*	7+9	2+12/5+10	b, c, a/d	Absattarova, 2005;
Ulc-2199	Poland	null	6+8	2+12	c, d, a	Waga and Bietz, 1997; Rabinovich et al, 2000b;
Ulla	Finland	2*	7+9	5+10	b, c, d	Tohver et al, 2001;

Ulm	France	2*	6+8	5+10	b, d, d	Branlard et al, 2003;
Ulugbek	Uzbekistan	null	7+9	2+10	c, c, e	Urazaliev,2003;
Umanka	Russia	1/2*	7+9	5+10	a/b, c, d	Rabinovich et al, 2000a;
Un-302	China	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
Una	Yugoslavia	null	7+9	5+10	c, c, d	Vapa, 1989;
Unic	France	null	6+8	2+12	c, d, a	Branlard et al, 2003;
Union	Australia	2*	20	2+12	b, e, a	Rayfuse and Jones, 1993;
Unnath-kalyansona	India	2*	17+18	2+12	b, i, a	Das et al, 2001;
Unter-engadin-9	Austria	null/1	6+8/7+8/7+9	3+12/2+12	c/a, d/b/c, b/a	Gregova et al, 2004;
UP 2338	CIMMYT-17TH ESWYT	2*	7+9/17+18	2+12	b, c/i, a	Payne and Pena, 2006;
UP 2338	CIMMYT-31ST IBWSN	2*	7+9/17+18	2+12	b, c/i, a	Payne and Pena, 2006;
UP1109	India	2*	7+8	2+12	b, b, a	Ram, 2003;
UP2003	India	1	17+18	5+10	a, i, d	Ram, 2003;

UP2338	India	2*	17+18	2+12	b, i, a	Ram, 2003;
Up-2338	India	2*	17+18	2+12	b, i, a	Das et al, 2001;
UP2425	India	1	17+18	5+10	a, i, d	Ram, 2003;
UP262	India	2*	7+8	2+12	b, b, a	Ram, 2003;
Up-301	India	1	17+18	2+12	a, i, a	Rayfuse and Jones, 1993
Up-310	India	1	7+8	5+10	a, b, d	Bhagwat and Bhatia, 1988;
Ural	Germany	null	7+9	2+12	c, c, a	Rogers et al, 1989;
Uralochka	Russia	2*	7+8	5+10/2+12	b, b, d/a	Morgunov et al, 1990; Rogers et al, 1989; Morgunov, et al 1990
Urban	Germany	null	7+9	5+10/2+12	c, c, d/a	Kazman and Lein, 1996; Rogers et al, 1989
Urban	Sweden	null/1	7+9	5+10	c/a, c, d	Johansson et al, 1993;
URES//BUC/PVN/3/K	CIMMYT-16TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
URES//BUC/PVN/3/KAUZ	CIMMYT-15TH SAWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
URES/BBL//KAUZ/3/BCN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

URES/BBL//KAUZ/3/KAUZ	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
URES/BOW//OPATA	CIMMYT-15TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
URES/BOW//OPATA	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
URES/JUN//KAUZ	CIMMYT-4TH HTWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
URES/KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
URES/PRL	CIMMYT-4TH SAWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
URES/RAYON	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
URES/RAYON	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
URES/TRT	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Urho	Finland	2*	7+9	5+10	b, c, d	Sontag et al, 1996;
Urimil	Korea	null	7+8	2.2+12	c, b, f	Hyun et al, 2001;
Urozhainaya	Russia	1	7+9	5+10/2+12	a, c, d/a	Morgunov et al, 1990; Morgunov, et al 1990
Urquie	U.S.A.	1	20	3+12	a, e, b	Rabinovich et al, 2000b;

Uruguay	Uruguay	1	20	5+10	a, e, d	Cornish, 2005;
Ushiokomugi	Japan	2*	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Uskoryanka	Russia	null	7+8	2+12	c, b, a	Rabinovich et al, 2000a;
Utac	U.S.A.	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
Utah-kanred	U.S.A.	null	7+9	2+12	c, c, a	Graybosh, 1992;
Utud G-21	Turkey	2*	7+9/17+18	5+10	b, c/i, d	McIntosh et al, 1991; Galova et al, 2001
V-74	Spain	d	-	-	d, ,	McIntosh et al, 1990; McIntosh et al, 1989;
V763.153	CIMMYT-29TH IBWSN	2*/1	7+9	2+12	b, c, a	Payne and Pena, 2006;
V763.252//2*MON/IMU	CIMMYT-29TH IBWSN	1	17+18	2+12	a, i, a	Payne and Pena, 2006;
V79391/KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
V88163	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Vadimovka	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2000a;
Vague-d-epis	France	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;

Vahart	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Vaillant	France	null	7+9	4+12	c, c, c	Branlard and Le Blank, 1985;
Vaishali	India	1	17+18	2+12	a, i, a	Das et al, 2001;
Vakka	Finland	2*	7	5+10/2+12	b, a, d/a	Sontang et al, 1986
Vala	Czech Republic	null	7+9	2+12	c, c, a	Galova et al, 2001
Val-de-pres	France	null/1/2*	20/7+8	2+12	c/a/b, e/b, a	Gregova et al, 2004;
Valdichiana	Italy	null	7*+8	2+12	c, u, a	Pogna et al, 1989;
Valdor	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985;
Valdur	France	null	6+8	-	c, d,	Branlard and Le Blank, 1985;
Valea-bradului-1	Romania	2*	7+9	5+10	b, c, d	Popa et al, 2004
Valea-bradului-3	Romania	null/1	7+9	5+10	c/a, c, d	Popa et al, 2004
Valente	Italy	1	6+8	2+12/3+12	a, d, a/b	Pogna et al, 1989; Pogna et al, 1989
Valeriya	Russia	2*	7+9	2+12	b, c, a	Rabinovich et al, 2001;

Valfiori	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Valforte	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Valgardena	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Valgerardo	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Valgiorgio	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Valisoara	Romania	null	7+8	5+10	c, b, d	Popa et al, 2004
Valitalico	Italy	1	20	-	a, e,	Vallega and Waines, 1987;
Valle d'Oro	Italy	1	6+8	2+12/5+10	a, d, a/d	Pogna et al, 1989; Pogna et al, 1989
Valmy	France	null	7+9	2+12	c, c, a	Branlard and Le Blank, 1985;
Valnera	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Valnova	Italy	null	7+8/20	null	c, b/e, i	Vallega and Waines, 1987; Turchetta et al, 1995; Anon, 1998; Anon, 1998;
Valor	Canada	1	7+9	5+10	a, c, d	Ng and Pogna, 1989;
Valprize	U.S.A.	1	6+8	3+12	a, d, b	Graybosh, 1992;

Valriccardo	Italy	null	7+8	-	c, b,	Vallega and Waines, 1987;
Valsacco	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Valselva	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
VAN/3/CNDR/ANA//CNDR/MUS	CIMMYT-15TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
Vanessa	Australia	2*	20	2+12	b, e, a	Cornish, 2005
Vardarka	Macedonia	null	7	2+12	c, a, a	Vapa, 1989;
Vardenik-9	Armenia	null	7+8	5+10	c, b, d	Rayfuse and Jones, 1993;
Varma	Finland	1	7+9	2+12	a, c, a	Sontang et al, 1986
Varyag	Russia	2*/null	7+9	2+12	b/c, c, a	Rabinovich et al, 2001; Anon, 1993c;
Vasco	Australia	2*	7+8	2+12	b, b, a	Cornish, 2005;
Vasco	Netherlands	1	7	2+12	a, a, a	Branlard et al, 2003;
Vavilovskaya	Russia	2*	7+8	5+10	b, b, d	Sykurov, 1992; Anon, 1998;
VEBOW	CIMMYT-14TH SAWSN	2*	7+9/17+18	2+12	b, c/i, a	Payne and Pena, 2006;

Vectis	Australia	1	7+8	2+12	a, b, a	Cornish, 2005;
VEE#5//DOVE/BUC	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
VEE#5//DOVE/BUC	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#5//PF70354/MUS	CIMMYT-4TH HTWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#5/3/BNQ/CNT8/ /ALDAN/IAS58/4/TNMU/5/CAZO	CIMMYT-8TH HRWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
VEE#5/PVNI//SHA7	CIMMYT-7TH HRWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
VEE#5/SARA/ /OPATA/3/OPATA/BOW	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#5/SARA/ /OPATA/3/OPATA/BOW	CIMMYT-4TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#5/SWF//BAU/3/BAU	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#5/TRAP#1	CIMMYT-16TH SAWSN	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
VEE#8/ /JUP/BJY/3/F3.71/TRM/4/BCN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#8/ /JUP/BJY/3/F3.71/TRM/4/BCN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#8//HD2206/HOR	CIMMYT-16TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;

VEE#8//HD2206/HORK	CIMMYT-14TH SAWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
VEE#8//JUP/BJY/ 3/F3.71/TRM/4/2*WEAVER	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
VEE#8//JUP/BJY/ 3/F3.71/TRM/4/2*WEAVER	CIMMYT-30TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
VEE#8//JUP/BJY/3 /F3.71/TRM/4/BCN/5/KAUZ	CIMMYT-6TH SAWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE#8//JUP/BJY/3/	CIMMYT-16TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE/5//SKH8/4/RRV/WW15/3/BJ/ /ON*3/BON	CIMMYT-14TH SAWSN	2*	17+18/7+8	5+10	b, i/b, d	Payne and Pena, 2006;
VEE//KOEL	CIMMYT-15TH SAWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
VEE//MJI//2*TUI	CIMMYT-29TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
VEE//MJI//2*TUI	CIMMYT-6TH SAWYT	1	17+18	5+10	a, i, d	Payne and Pena, 2006;
VEE//PJN//2*KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE//PJN//2*TUI	CIMMYT-6TH SAWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
VEE//PJN//KAUZ	CIMMYT-14TH SAWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
VEE//PJN//KAUZ	CIMMYT-17TH ESWYT	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;

VEE/PJN//OPATA	CIMMYT-30TH IBWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
VEE/PJN//TUI	CIMMYT-15TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
VEE/SNB//BUC/PVN	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Veery	Mexico	1	7+9	5+10	a, c, d	Rabinovich et al, 2000b;
Veery-2	Mexico	2*	7+9	5+10	b, c, d	Anon, 1998;
Veery-3	Mexico	1	7+9	5+10	a, c, d	Anon, 1998;
Veery-s	Mexico	1	7+9	5+10	a, c, d	Sasek et al, 1997;
Vega	Czech Republic	null	7+8	5+10	c, b, d	Gregova et al, 1997; Rabinovich et al, 2000b;
Veka	Finland	2*	6+8/7+8/7+9	5+10/2+12	b, d/b/c, d/a	Sontang et al, 1986
Velino	Italy	null	22	2+12	c, k, a	Rayfuse and Jones, 1993;
VENAC 2	CIMMYT-14TH SAWSN	2*	17+18/7+9	2+12	b, i/c, a	Payne and Pena, 2006;
Venango	U.S.A.	2*	7+9/20	5+10	b, c/e, d	Shan et al, 2007;
Vento	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987;

Ventura	France	2*	7+8/17+18	2+12	b, b/i, a	Wrigley et al, 2005
Venture	U.K.	2*	7+8	2+12	b, b, a	Payne et al, 1987
Veranopolis	Brazil	null	7+8	2+12	c, b, a	Cornish, 2005;
Verde	U.S.A.	2*	OE7+8	5+10	c, al, d	Liu et al 2008
Verdeal-rijo	Portugal	null	20	-	c, e,	Vallega and Mello-Sampayo 1987;
Vergina	Greece	2*/1	20/14+15	3+12	b/a, e/h, b	Vallega, 1988; Anon, 1989; Matsoukas and Morrison, 1991
Veritas	U.K.	1	6+8	5+10	a, d, d	Anon. 1993d
Vermelejoilo	Portugal	1	6+8	-	a, d,	Vallega and Mello-Sampayo 1987;
Vermillion	Canada	null	7+9	2+12	c, c, a	Bushuk, 2006;
Vermillion	U.S.A.	null	7+8/7+9	2+12/5+10	c, b/c, a	Graybosh, 1992; Anon, 1998;
Verna	Italy	1/null	6+8/20	2+12	a/c, d/e, a	Pogna et al, 1989;
Verna(1)	Italy	1	6+8	2+12	a, d, a	Pogna et al, 1989
Verna(2)	Italy	null	20	2+12	c, e, a	Anon, 1998; Pogna et al, 1989

Vernon	Canada	1/2*	7+9	5+10/2+12	a/b, c, d/a	Lukow et al, 1989
Veronese	Italy	null/1	6+8	2+12	c/a, d, a	Pogna et al, 1989;
Veronese(1)	Italy	null	6+8	3+12	c, d, b	Pogna et al, 1989
Veronese(2)	Italy	1	6+8	2+12	a, d, a	Sasek et al, 1997; Pogna et al, 1989
Versailles	Netherlands	1	6+8	2+12	a, d, a	Kazman and Lein, 1996; Sobko and Sozinov, 1999;
Veselka	Ukraine	1/2*	7+9	5+10	a/b, c, d	Ya, 1997;
Vespro	Italy	null	20	-	c, e,	Vallega and Waines, 1987;
Vesta	Ukraine	2*/null	7+9	5+10	b/c, c, d	Rabinovich et al, 2004;
Vetluzhanka	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Vežio	Italy	null	6+8	-	c, d,	Vallega and Waines, 1987; Lookhart et al, 1993;
VI/PIFED//VEE#8	CIMMYT-15TH SAWSN	2*	7	5+10	b, a, d	Payne and Pena, 2006;
VI/SNB//ND610	CIMMYT-15TH SAWSN	2*	7	5+10	b, a, d	Payne and Pena, 2006;
Vic	U.S.A.	null	6+8	-	c, d,	Vallega, 1988; Anon, 1989;

Vicam-s-71	Mexico	2*	7+9	5+10	b, c, d	Cornish, 2005;
Victo	France	2*	13+16	5+10	b, f, d	Groger et al, 1997;
Victor	Italy	null	7	2+12	c, a, a	Pogna et al, 1989;
Victor	U.K.	null	6+8	2+12	c, d, a	Gregova et al, 1999;
Victoria-Inta	Argentina	1	OE7+8*	5+10	a, al, d	Gianibelli et al, 2002;
Victoria-m-81	Mexico	1	13+16	5+10/2+12	a, f, d/a	Rabinovich et al, 2000b;
Vidisha	India	1	17+18	2+12	a, i, a	Das et al, 2001; Sasek et al, 1997;
VigInta	Slovak Republic	null	7+9	5+10	c, c, d	Cerny, et al 1989; Gregova et al, 1997;
Viglasska	Slovak Republic	null	7+9	5+10	c, c, d	Gregova et al, 1997;
Viglasska-cervenoklasa	Slovak Republic	1/2*	7+9	3+12	a/b, c, b	Gregova et al, 1997; Gregova et al, 1999;
Vigo	U.S.A.	1/2*	7+9	3+12	a/b, c, b	Graybosh, 1992;
Vijay	India	null	13 + 16	-	c, f, -	Oak et al, 2004;
Viking	France	null	6+8	4+12	c, d, c	Branlard et al, 2003;

Viktoriya-95	Russia	1/2*	7+8	5+10	a/b, b, d	Panin, 1999;
Viktoriya-odesskaya	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Sobko and Sozinov, 1999; Rabinovich et al, 2001;
Villa	Finland	2*	7+9	2+12	b, c, a	Cornish, 2005;
Villa-glori	Italy	null	20	2+12	c, e, a	Pogna et al, 1989;
Vilmorin-23	France	null	7	4+12	c, a, c	Branlard and Le Blank, 1985; Rabinovich et al, 2000b;
Vilmorin-27	France	null	7	3+12	c, a, b	Branlard and Le Blank, 1985;
Vilmorin-53	France	null	20	3+12	c, e, b	Branlard and Le Blank, 1985;
Vinci	Italy	1	7/7*+8	2+12	a, a/u, a	Pogna et al, 1989;
Vinci(1)	Italy	1	7	2+12	a, a, a	Pogna et al, 1989
Vinci(2)	Italy	1	7*+8	2+12	a, u, a	Vapa and Sanic, 1988; Pogna et al, 1989
Vinjett	Sweden	2*	7+9	5+10	b, c, d	Johansson et al, 1993;
Vinkovcanka	Croatia	null	7+8	2+12	c, b, a	Vapa, 1989;
Viprior	France	null	20	-	c, e,	Branlard and Le Blank, 1985;

Vir 18	Russia	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;
Vir 25	Russia	2*/1	7+9	5+10	b/a, c, d	Tohver et al, 2001, Tohner, 2007;
Vir 26	Russia	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;
Vir 27	Russia	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
Vir 29	Russia	2*	7+9	5+10	b, c, d	Tohver et al, 2001, Tohner, 2007;
Vir 32	Russia	2*	7+9	2+12	b, c, a	Tohver et al, 2001, Tohner, 2007;
Vir 33	Russia	1	7+9	5+10	a, c, d	Tohver et al, 2001, Tohner, 2007;
Vir 36	Russia	2*/1	7+9	5+10	b/a, c, d	Tohver et al, 2001, Tohner, 2007;
Vir 37	Russia	2*	7+8	5+10	b, b, d	Tohver et al, 2001, Tohner, 2007;
Vireo	Mexico	1/2*	7+8	2+12	a/b, b, a	Anon, 1998;
Virest	Italy	1	6*+8*	2+12	a, w, a	Pogna et al, 1989;
Virgilio	Italy	null	20	2+12	c, e, a	Pogna et al, 1989; Glu-A1c;
Virtue	U.K.	null	6+8	2+12	c, d, a	Payne et al, 1987

Vishram	India	null	6 + 8	-	c, d, -	Oak et al, 2004;
Vista	U.S.A.	2*	7+8	5+10	b, b, d	Pike and MacRitchie, 2004;
Vitka	Yugoslavia	null	7+8	5+10	c, b, d	Kazman and Lein, 1996; Bedo and Lang, 2005
Vivant	U.K.	null	6+8	2+12	c, d, a	Anon. 1993d
Vivenza	Italy	null	7*+8	2+12/5+10	c, u, a/d	Pogna et al, 1989; Pogna et al, 1989
Vizir	France	null	7	2+12	c, a, a	Branlard et al, 2003;
Vk-33-z	Yugoslavia	null	7+9	2+12	c, c, a	Vapa, 1989; Kazman and Lein, 1996;
VL401	India	1	7+9	5+10	a, d, d	Ram, 2003;
VL404	India	2*	7+8	2+12	b, b, a	Ram, 2003;
VL421	India	1	7+8	5+10	a, b, d	Ram, 2003;
VL616	India	2*	7+9	2+12	b, d, a	Ram, 2003;
VL738	India	1	7+9	5+10	a, d, d	Ram, 2003;
VL804	India	2*	7+9	2+12	b, d, a	Ram, 2003;

Vlada	Czech Republic	1	7+9	5+10	a, c, d	Gregova et al, 1997; Sasek et al, 1997;
Vojvodanka	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Volcani DD1	Israel	2*	OE7+8*	5+10	b, al, d	Cavanagh, 2005
Volgogradskaya-84	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Volgouralskaya	Russia	2*	7+9	2+12	b, c, a	Absattarova, 2005;
Vona	U.S.A.	1	7+8/7+9	2+12	a, b/c, a	Graybosh, 1992; Lookhart et al, 1993; Graybosh, 1992
VORONA	CIMMYT-3RD FAWWYT	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
Vorona	Mexico	null/2*	7+9/7	5+10/2+12	c/b, c/a, d/a	Rabinovich et al, 2000b;
VORONA/CNO79	CIMMYT-4TH HTWYT	1	7+9	2+12	a, c, a	Payne and Pena, 2006;
VORONA/CNO79//KAUZ	CIMMYT-17TH ESWYT	2*/1	7+9	2+12	b, c, a	Payne and Pena, 2006;
VORONA/GEN	CIMMYT-14TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
VORONA/KAUZ//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Voronezhskaya-10	Russia	1	7+9	5+10	a, c, d	Rabinovich et al, 2001;

Voronezhskaya-12	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Rabinovich et al, 2001; Bespalov, 1994;
Voronezhskaya-6	Russia	1	7+9	5+10/2+12	a, c, d/a	Rabinovich et al, 2001;
Vouska-z-tremosnice	Czech Republic	null	7+9	5+10	c, c, d	Gregova et al, 1999;
Voyage	France	null/1	6+8	3+12	c/a, d, b	Branlard et al, 2003;
VPI 112	U.S.A.	1	7+9	2+12	a, c, a	Graybosh, 1992;
Vpi-131	U.S.A.	1	7+8	2+12	a, b, a	Graybosh, 1992;
Vpm-1-b	France	1	7+9	2+12	a, c, a	Cornish, 2005;
Vrakunska	Slovak Republic	null	6+8	2+12	c, d, a	Gregova et al, 1997;
VS1097-17	India	2*	7+9	2+12	b, d, a	Ram, 2003;
Vucedolka	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989; Anon, 1998;
Vuka	Germany	null/2*	7+9	5+10	c/b, c, d	Anon, 1993c; Rogers et al, 1989; Ng and Pogna, 1989; Rogers et al, 1989
Vulcan	Australia	1	17+18	2+12	a, i, a	Sobko and Sozinov, 1999; Anon, 1998;
Vympel-odesskii	Ukraine	2*	7+9	5+10	b, c, d	Ya, 1997;

W 1301/2*WEAVER	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
W 29323	Norway	1	14+15	2+12	a, h, a	Johansson et al, 1993;
W 31169	Norway	1	7+9	5+10	a, c, d	Johansson et al, 1993;
W 3879	Norway	1	7+9	5+10	a, c, d	Johansson et al, 1993;
W04-417	U.S.A.	1	7+8	5+10	a, b, d	Shan et al, 2007;
W-137-b	India	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993;
W-138-b	India	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993;
W-139-b	India	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
W-2691	Australia	2*	20	5+10	b, e, d	Rayfuse and Jones, 1993;
W-29323	Sweden	t	14+15	5+10	t, h, d	Johansson et al, 1993
W-31169	Sweden	2*/t	7+9	5+10	b/t, c, d	Johansson et al, 1993
W-332	U.S.A.	2*	7+9	3+12	b, c, b	Graybosh, 1992;
W-3879	Sweden	t	17+18	5+10	t, i, d	Johansson et al, 1993

W3918A/JUP	CIMMYT-6TH SAWYT	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
W-44-a	Pakistan	2*	7+8	2+12	b, b, a	Rayfuse and Jones, 1993;
W-51-b	Pakistan	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
W-78-b	Pakistan	null	7+8	2+12	c, b, a	Rayfuse and Jones, 1993;
W92.7351	CIMMYT-4TH HRWYT	null	7+9	5+10	c, c, d	Payne and Pena, 2006;
Wa-006581	U.S.A.	2*	21	2+12	b, j, a	Rayfuse and Jones, 1993;
Wa-2606	U.S.A.	null/2*	7+8	-	c/b, b,	Anon, 1989; Vallega, 1988;
Wabash	U.S.A.	2*	6+8/7+8	3+12	b, d/b, b	Graybosh, 1992;
Wagga-13	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005
Waggoner	U.K.	null	6+8	2+12/5+10	c, d, a/d	Cornish, 2005;
Wagin	Australia	2*	17+18	5+10	b, i, d	Lawrence, 1986
Wahoo	U.S.A.	2*	7+9/20	5+10	b, c/e, d	Shan et al, 2007;
Wakamatsukomugi	Japan	null	7+8	2+12	c, b, a	Nakamura, 2000a; Glu-A1b;

Wakeland	U.S.A.	2*	13+16	5+10	b, f, d	Graybosh, 1992; Vallega, 1988;
Wakooma	Canada	null	6+8	null	c, d, i	Anon, 1989; Ng and Pogna, 1989; Lookhart et al, 1993; Anon, 1998;
Wakooma (DT 316)	Canada	null	6+8	-	c, d, -	Bushuk, 2006;
Waldron	U.S.A.	2*	7+9	5+10	b, c, d	Lookhart et al, 1993; Rabinovich et al, 2000b;
Walera	U.S.A.	2*	7+8	5+10	b, b, d	Rabinovich et al, 2000b;
Wampum	U.S.A.	null/1	7+9	2+12/5+10	c/a, c, a/d	McLendon et al, 1993;
Wan-50-1-i-xuan-10	China	null	20	2+12	c, e, a	Wang et al, 1993;
Wan-7107	China	1	17+18	2+12*	a, i, j	Xue-Yong et al, 2002
Wangshuibai	China	2*	7+8	2+12	b, b, a	He et al, 1992; Lookhart et al, 1993;
Wanmai 18	China	1	7+8	4+12	a, b, c	Liu et al, 2005;
Wanmai 19	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Wanmai 33	China	1	20	5+10	a, e, d	Liu et al, 2005;
Wanmai 38	China	1	7+8	4+12	a, b, c	Liu et al, 2005;

Wanser	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Waratah	Australia	1	20	2+12	a, e, a	Cornish, 2005
Warbler	Australia	2*	7+8/7*+8	2+12	b, b/u, a	Lookhart et al, 1993; Wrigley et al, 2005
Ward	U.S.A.	null	6+8	-	c, d,	Vallega, 1988; Anon, 1989;
Wards-prolific	Australia	1	14+15	5+10	a, h, d	Cornish, 2005; Anon, 1993c;
Warigal	Australia	null/2*	7+8/7+9	2+12/5+10	c/b, b/c, a/d	Lawrence, 1986
Warimba	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Warimek	Australia	null	7+8	5+10	c, b, d	Cornish, 2005;
Wariquam	Australia	null	7+8	2+12	c, b, a	Lookhart et al, 1993;
Warrior	U.S.A.	2*	7+9	5+10/2+12	b, c, d/a	Graybosh, 1992; Lookhart et al, 1993
Wasatch	U.S.A.	null	7+9	5+10	c, c, d	Graybosh, 1992; Vallega, 1988;
Wascana	Canada	null	6+8	-	c, d,	Anon, 1989; Ng and Pogna, 1989; Anon, 1998;
Wasp	U.K.	null	7	2+12	c, a, a	Rogers et al, 1989; Cornish, 2005

Wattines	France	null	6+8	5+10/2+12	c, d, d/a	Branlard and Le Blank, 1985; Rogers et al, 1989
Waverly	U.S.A.	2*	7+9	2+12	b, c, a	Labuschagne and Deventer, 1995;
WB411W	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
WEAVER	CIMMYT-29TH IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
WEAVER	CIMMYT-31ST IBWSN	2*	7+8	5+10	b, b, d	Payne and Pena, 2006;
WEAVER*2//HUI/YAV	CIMMYT-16TH SAWSN	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
WEAVER*2//HUI/YAV_1	CIMMYT-6TH SAWYT	1	7+9	5+10	a, c, d	Payne and Pena, 2006;
WEAVER/JACANA	CIMMYT-31ST IBWSN	2*	17+18	5+10	b, i, d	Payne and Pena, 2006;
Weibulls-algot	Sweden	2+2*	7+8	12	(2+2*), b, l	Dubuc and Boudreau, 1992; Griffin et al, 2001;
Weka	New Zealand	d	7	5+10	d, a, d	Cornish, 2005;
Wells	U.S.A.	null	20	-	c, e,	Branlard and Le Blank, 1985;
Wellstead	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
Wembley	U.K.	2*/1	7+9	2+12/5+10	b/a, c, a/d	Anon, 1998; Payne et al, 1987

Wendy	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Wenge-1	China	null	7+8	2+12	c, b, a	He et al, 1992; Khan et al, 1989
Wenmai 4	China	1	7+9	4+12	a, c, c	He et al, 2005;
Wenmai 6	China	1	7+9	4+12	a, c, c	He et al, 2005;
Wenzhou-red-monk	China	null	7+8/7*+8	2+12	c, b/u, a	He et al, 1992; Khan et al, 1989
Wesley	U.S.A.	2*	7+8	5+10	b, b, d	Shan et al, 2007;
Westbred Keota	U.S.A.	null	7+8	5+10	c, b, d	Shan et al, 2007;
Westbred-881	U.S.A.	null	6+8	null	c, d, i	Anon, 1998;
Westbred-906-r	U.S.A.	2*	17+18	5+10	b, i, d	Lookhart et al, 1993;
Westbred-regal	U.S.A.	null/2*	-	-	c/b, ,	Branlard and Le Blank, 1985;
Westmont	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Weston	U.S.A.	1	7+9	2+12	a, c, a	Lookhart et al, 1993; Lookhart et al, 1993
Westonia	Australia	2*	17+18	2+12	b, i, a	Wrigley et al, 2005

WG3070/2*WEAVER	CIMMYT-15TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
WG3498/KAUZ//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
WG3548/3/F60314.76/MRL/ /CNO79/4/WEAVER	CIMMYT-31ST IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
WH 542	CIMMYT-30TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
WH147	India	2*	7+8	2+12	b, b, a	Ram, 2003;
WH157	India	2*	7+9	2+12	b, d, a	Ram, 2003;
WH283	India	2*	7+8	2+12	b, b, a	Ram, 2003;
WH291	India	2*	20	2+12	b, e, a	Ram, 2003;
WH331	India	1	7+9	5+10	a, d, d	Ram, 2003;
WH416	India	2*	7+8	2+12	b, b, a	Ram, 2003;
WH533	India	1	7+9	5+10	a, d, d	Ram, 2003;
Wh-533	India	1/null	7+9	5+10	a/c, c, d	Das et al, 2001; Glu-A1c;
Wh-542	India	2*	7+9	5+10	b, c, d	Das et al, 2001; Lookhart et al, 1993; Rao et al, 2001;

WH-896	India	null	6 + 8	-	c, d, -	Oak et al, 2004;
Wheaton	U.S.A.	2*	7+8	5+10	b, b, d	Anon, 1998; Rabinovich et al, 2000b;
Whistler	Australia	2*	7*+8	2+12	b, u, a	Rabinovich et al, 2000b; Wrigley et al, 2005
White Lammas	U.K.	2*	7+8	2+12	b, b, a	Cornish, 2005
White-fife	Canada	1	20	2+12	a, e, a	Anon, 1998;
White-russian	Canada	2*	6+8	2+12	b, d, a	Anon, 1998; Glu-A1b;
Wialki	Australia	2*	17+18	2+12	b, i, a	Lawrence, 1986
Wichita	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992; Lookhart et al, 1993; Rabinovich et al, 2000b;
Widgeon	U.K.	1	7	2+12	a, a, a	Cornish, 2005;
Wilbur	U.S.A.	null	22	2+12	c, k, a	Rayfuse and Jones, 1993; Anon, 1998;
Wildcat	Canada	2*	7+8/OE7+8*	5+10	b, b/al, d	Ng and Pogna, 1989; Anon, 1993c; Cornish, 2005
Wildcat (PT 329)	Canada	2*	7+8	5+10	b, b, d	Bushuk, 2006;
Wilgoyne	Australia	2*/null	17+18	5+10	b/c, i, d	Anon, 1998;

Willi	Austria	null	6+8/7+9	5+10	c, d/c, d	Groger et al, 1997; Groger et al, 1997
Wilson-ve-147	Iran	2*	7	2+12	b, a, a	Rayfuse and Jones, 1993;
Wim	Netherlands	1	7	2+12	a, a, a	Branlard and Le Blank, 1985;
Wimax	France	null	7+9	5+10	c, c, d	Branlard and Le Blank, 1985; Lookhart et al, 1993;
Winalta	Canada	2*	7+9	5+10	b, c, d	Anon, 1998; Lukow et al, 1989
Windebri	Australia	2*	17+18	5+10	b, i, d	Cornish, 2005;
Windstar	U.S.A.	2*	7+9	5+10	b, c, d	Shan et al, 2007;
Winglen	Australia	2*	7+9	5+10	b, c, d	Lookhart et al, 1993; Lawrence, 1986
Wings	U.S.A.	2*	7+9	3+12	b, c, b	Graybosh, 1992;
Winnetou	Germany	null	6+8	2+12	c, d, a	Groger et al, 2005
Winoka	U.S.A.	1	7+9	5+10	a, c, d	Graybosh, 1992;
Winridge	U.S.A.	2*	7+9	2+12	b, c, a	Graybosh, 1992;
Winter-john	U.S.A.	1	7+9	3+12	a, c, b	Graybosh, 1992;

WL1562	India	2*	17+18	2+12	b, i, a	Ram, 2003;
WI-2265	India	1	17+18	2+12	a, i, a	Rabinovich et al, 2001;
WL410	India	2*	17+18	2+12	b, i, a	Ram, 2003;
WI-410	India	2*	17+18	2+12	b, i, a	Rabinovich et al, 2001;
WL6736/2*WEAVER	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
WL6736/5/2*BR12*3/4//IAS55*4/CI14123/3/ IAS55*4/EG,AUS/ //IAS55*4/ALD	CIMMYT-29TH IBWSN	2*	7+9	2+12	b, c, a	Payne and Pena, 2006;
WL6736/STAR	CIMMYT-30TH IBWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
WL6975/TEPOCA//CNO79/PRL	CIMMYT-15TH SAWSN	2*	7+8	2+12	b, b, a	Payne and Pena, 2006;
WL7060/TURACO	CIMMYT-31ST IBWSN	null	17+18	2+12	c, i, a	Payne and Pena, 2006;
WL7060/TURACO	CIMMYT-31ST IBWSN	2*	17+18	2+12	b, i, a	Payne and Pena, 2006;
WL7060/TURACO	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
WL711	India	2*	17+18	2+12	b, i, a	Ram, 2003;
WI-711	India	2*	17+18	2+12	b, i, a	Tahir et al, 1995;

Wollaroi	Australia	null	7+8	null	c, b, i	Anon, 1998;
Wolynianka	Poland	1/null	7+9/7/6+8	5+10/2+12	a/c, c/a/d, d/a	Gregova et al, 2004;
Wongoondy	Australia	2*	7+9	5+10	b, c, d	Cornish, 2005;
World-seeds-1825	U.S.A.	1	17+18	5+10	a, i, d	Rabinovich et al, 2001;
World-seeds-1Sykurov, 1992	U.S.A.	null	7+8	2+12	c, b, a	Graybosh, 1992;
Worrakatta	Australia	1	7+9	5+10	a, c, d	Wrigley et al, 2005
Wrangler	U.S.A.	2*	7+9	5+10	b, c, d	Graybosh, 1992;
Wren	Australia	2*	20	5+10/2+12	b, e, d/a	Lawrence, 1986
Wren	Mexico	2*	20	5+10	b, e, d	Cornish, 2005;
Wri-yielder	New Zealand	1	7	5+10	a, a, d	Griffin, 1994; Griffin et al, 2001;
WS Kronjet	Sweden	2*	14+15	2+12	b, h, a	Groger et al, 2005
WUH1/BOW	CIMMYT-7TH HRWSN	null	7+9	2+12	c, c, a	Payne and Pena, 2006;
WUH1/VEE#5/3/CHUM18//JUP/BJY	CIMMYT-8TH HRWSN	null	7+9	5+10	c, c, d	Payne and Pena, 2006;

Wuhan-3	China	null	7+9	2+12	c, c, a	He et al, 1992;
Wuyimai	China	1	7+8	2+10	a, b, e	Xue-Yong et al, 2002
WW-1203	Australia	1/null	6+8	2+12	a/c, d, a	Cornish, 2005;
WW-1248	Australia	null	6+8	2+12	c, d, a	Cornish, 2005;
WW-15	Australia	null	7+8	2+12	c, b, a	Cornish, 2005;
Ww-766	Australia	null	17+18/20	5+10	c, i/e, d	Cornish, 2005;
WW-Waga, 1992	Australia	2*/null	6+8	2+12	b/c, d, a	Cornish, 2005;
Wyalkatchem	Australia	1	13+16/7*+8	2+12	a, f/u, a	Wrigley et al, 2005
Wylah	Australia	2*	7*+8	2+12	b, u, a	Anon, 1993c; Wrigley et al, 2005
Wyuna	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005;
X81502@-3/KAUZ//KAUZ	CIMMYT-31ST IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Xanthos	Germany	1	6+8	5+10	a, d, d	Kazman and Lein, 1996;
Xenia	Greece	null	17+18	2+12	c, i, a	Matsoukas and Morrison, 1991

Xenos	Austria	1	7+9	5+10	a, c, d	Groger et al, 2005
Xeres	Spain	null	6+8	-	c, d,	Anon, 1989;
Xian-8	China	1	6+8	2+12	a, d, a	He et al, 1992;
Xian-88	China	1	6+8	2+12	a, d, a	He et al, 1992;
XIANG82.2661/2*KAUZ	CIMMYT-8TH HRWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Xiang-82-2661	China	null	7+8	2+12	c, b, a	He et al, 1992;
Xiaonongfu-63	China	1	7+8	4+12/5+10	a, b, c	Wang et al, 1993;
Xiaoyan-107	China	1	7+8	2+12	a, b, a	He et al, 1992;
Xiaoyan-54	China	1	14+15	2+12	a, h, a	He et al, 1992; Khan et al, 1989
Xiaoyan-6	China	1	14+15/20	5+9/2+12	a, h/e, g/a	Wang et al, 1993; Khan et al, 1989
Xiaoyanmai-7	China	?	21	4+12	?, j, c	Wang et al, 1993;
Xiaoyazizui	China	null	7*+8	2+12	c, u, a	He et al, 1992;
Xibei-6028	China	1	7+8	2+10	a, b, e	Xue-Yong et al, 2002

Xindong-1	China	null	7+8	5+10/2+12	c, b, d	Wang et al, 1993;
Xindong-13	China	null	6+8	2+12	c, d, a	Wang et al, 1993;
Xindong-7	China	null	7+8	2+12	c, b, a	He et al, 1992;
Xinkehan-9	China	1	7+9	2+12	a, c, a	He et al, 1992;
Xinong 1163-20	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Xinong 1220801	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Xinong 336	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Xinong 6426	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Xinong 8925-13	China	2 ⁺	14+15	2+12	b, h, a	Liu et al, 2005;
Xinong-6028	China	1	7+8	2+10	a, b, e	Xue-Yong et al, 2002
Xinshuguang	China	null	7+9	2+12	c, c, a	He et al, 1992; Khan et al, 1989
Xu 858	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Xuzhou 25	China	null	7+9	2+12	c, c, a	Liu et al, 2005;

Xuzhou 826	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Xuzhou-14	China	null	7+8	5+9	c, b, g	Xue-Yong et al, 2002
Xuzhou-21	China	null	7+8	2+12	c, b, a	He et al, 1992;
Y10-8	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Y10-bindawarra	Australia	null/1	7+8/7+9	2+12	c/a, b/c, a	Cornish, 2005;
Yafit	Israel	null	7+8	5+10	c, b, d	Cornish, 2005;
Yakar-99	Turkey	1	13+16	2+12	a, f, a	Khan et al, 1989
Yakor-odesskii	Ukraine	2*	7+8/7+9	5+10	b, b/c, d	Rabinovich et al, 2001;
Yallaroi	Australia	null	14+15	-	c, h,	Liu and Rathjen, 1994; Rabinovich et al, 2000b; Anon, 1993c;
Yamhill	U.S.A.	2*	7	2+12	b, a, a	Anon, 1998;
Yan 239	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Yan 2801	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Yan 475	China	1	7+8	2+12	a, b, a	Liu et al, 2005;

Yan 85722	China	1	7+9	4+12	a, c, c	He et al, 2005;
Yan 99-5	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Yanac	Australia	2*	20	2+12	b, e, a	Wrigley et al, 2005
Yanan-11	China	2*	7+9	2+12	b, c, a	Wang et al, 1993;
Yanan-15	China	null	7+8	2+12/4+12	c, b, a/c	Wang et al, 1993; He et al, 1992;
Yanan-17	China	1	6+8	2+12	a, d, a	Wang et al, 1993;
Yanbash	Uzbekistan	2*	20	5+10	b, e, d	Urazaliev,2003;
Yanda-1817	China	null	7+8	2+10	c, b, e	Xue-Yong et al, 2002
Yandilla-king	Australia	1	7/7+9	2+12	a, a/c, a	Cornish, 2005
Yanfu 188	China	null	7+9	4+12	c, c, c	Liu et al, 2005;
Yang 96-152	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Yang 96G25	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Yang 97-65	China	null	7+8	2+12	c, b, a	Liu et al, 2005;

Yang-85-85	China	1	7+9	2+12	a, c, a	He et al, 1992;
Yang-87-158	China	null	7+8	2+12	c, b, a	He et al, 1992;
Yangmai 158	China	null	7+8	2+12	c, b, a	Liu et al, 2005;
Yangmai 5	China	null	7+9	2+12	c, c, a	He et al, 2005;
Yangmai 9	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Yangmai-1	China	1	7+8	2+10/2+12	a, b, e/a	He et al, 1992; Xue-Yong et al, 2002
Yangmai-158	China	null	7+8	5+9	c, b, g	Xue-Yong et al, 2002
Yangmai-3	China	2*	7+8/17+18	2+12	b, b/i, a	He et al, 1992; Khan et al, 1989
Yangmai-5	China	null	20	2+12	c, e, a	He et al, 1992;
Yangmai-6	China	null	20	5+10	c, e, d	He et al, 1992;
Yannong 15	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Yannong 18	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Yannong-685	China	1	7+8	4+12/5+10	a, b, c	Wang et al, 1993;

Yantarnaya-50	Russia	1	7+9	5+10	a, c, d	Ya, 1997;
Yanyou 361	China	1	17+18	5+10	a, i, d	Liu et al, 2005;
Yanzhou-144	China	1	7+8	4+12/2+12	a, b, c	Wang et al, 1993;
Yaolingmai	China	null	7+8	2+12	c, b, a	He et al, 1992;
Yaqui-50	Mexico	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000b;
Yaqui-53	Mexico	null	17+18	-	, i,	Rabinovich et al, 2001;
Yaqui-54	Mexico	null	17+18	-	, i,	Rabinovich et al, 2001;
Yara	Russia	2*	13+16/7+9	5+10	b, f/c, d	Rabinovich et al, 2000a; Anon, 1993c;
Yarralinka	Australia	2*	17+18	5+10	b, i, d	Cornish, 2005;
Yasen	Bulgaria	2*	7+9	5+10	b, c, d	Cornish, 2005
Yavaros-79	Mexico	null	20	-	c, e,	Vallega, 1988; Tahir et al, 1995;
Yecora-70	Mexico	1	17+18	2+12/5+10	a, i, a/d	Anon, 1998; Cornish, 2005
Yecora-rojo	U.S.A.	1	17+18	5+10	a, i, d	Lookhart et al, 1993; Lookhart et al, 1993

Yecora-rojo-76	U.S.A.	1	17+18	5+10	a, i, d	Cornish, 2005;
Yektay-406	Turkey	2*	7+8	2+12	b, b, a	Rabinovich et al, 2000b; Sanal et al, 2005
Yellow Khapli	India	1	14 +15	-	a ,h, -	Oak et al, 2004;
Yga-blondeau	France	null	7+8	4+12	c, b, c	Branlard and Le Blank, 1985;
Yilong-13	China	null	7+9	2+12	c, c, a	He et al, 1992;
Yin 11-12	China	2*	17+18	5+10	b, i, d	Liu et al, 2005;
Yitpi	Australia	1	7+8	5+10	a, b, d	Wrigley et al, 2005
Yogo	U.S.A.	2*	7+9	5+10/2+12	b, c, d	Graybosh, 1992; Ng and Pogna, 1989;
Yorkstar	Canada	1	7+9	2+12	a, c, a	Bushuk, 2006;
Yorkstar	U.S.A.	1	7+9	2+12/5+10	a, c, a/d	Anon, 1998; Lukow et al, 1989
Youbaomai	China	1	7+9	null	a, c, i	Xue-Yong et al, 2002
Youmangbai-4	China	null	7+9	5+10	c, c, d	He et al, 1992;
Youmenbei-4	China	null	7+9	5+10	c, c, d	He et al, 1992;

Youxuan 14	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Youxuan 9	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Youxuan-14	China	1	7+8	5+10	a, b, d	Xue-Yong et al, 2002
Youxuan-9	China	1	7+9	5+10	a, c, d	Xue-Yong et al, 2002
Youzimai	China	1	7+8	4+12	a, b, c	Xue-Yong et al, 2002
YR/TRF//VEE/3/KAUZ	CIMMYT-29TH IBWSN	2*	7+9	5+10	b, c, d	Payne and Pena, 2006;
Yuandong 107	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Yuandong 6	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Yuandong 8585	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Yuandong 9428	China	2 [*]	7+9	5+10	b, c, d	Liu et al, 2005;
Yuandong 971	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Yuandong-3	China	null	7+9	5+10/4+12	c, c, d/c	He et al, 1992; Ya, 1997; Khan et al, 1989
Yubileinaya-50	Ukraine	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Rabinovich et al, 2004; Rabinovich et al 2001

Yubileinaya-75	Ukraine	2*/1	7+9	5+10	b/a, c, d	Ya, 1997; Borojevic, 1990; Sobko and Sozinov, 1999;
Yugoslavia	Yugoslavia	1/2*	7+9	5+10	a/b, c, d	Vapa, 1989; Rabinovich et al, 2000a; Kolster et al, 19881; Dencic, 2001;
Yugtina	Russia	1/2*	7+8/7+9	5+10	a/b, b/c, d	Ya, 1997; Rabinovich et al, 2000a;
Yukichabo	Japan	null	7+9	2+12	c, c, a	Nakamura, 2000a;
Yukon	U.S.A.	2*/1	7+8	5+10	b/a, b, d	Graybosh, 1992;
Yuma	U.S.A.	1	7+8	3+12	a, b, b	Shan et al, 2007;
Yumai 13	China	2*	7+8	5+10	b, b, d	He et al, 2005;
Yumai 13	China	1	7+8	5+10/4+12	a, b, d/c	He et al, 1992; Khan et al, 1989
Yumai 14	China	1	7+8	5+9	a, b, g	Xue-Yong et al, 2002
Yumai 15	China	1	7+9	4+12	a, c, c	He et al, 1992;
Yumai 16	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Yumai 18	China	null	14+15	4+12	c, h, c	He et al, 2005;
Yumai 2	China	1	7+9	5+10	a, c, d	Khan et al, 1989

Yumai 2(sichuan)	China	1	7+9	4+12	a, c, c	He et al, 1992;
Yumai 21	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Yumai 25	China	1	7+9	4+12	a, c, c	He et al, 2005;
Yumai 28	China	null	7+9	2+12	c, c, a	He et al, 2005;
Yumai 34	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Yumai 35	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Yumai 47	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Yumai 49	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Yumai 5	China	1	7+9	3+12/4+12	a, c, b/c	He et al, 1992; Khan et al, 1989
Yumai 50	China	2	7+9	2+12	b, c, a	Liu et al, 2005;
Yumai 51	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Yumai 54	China	1	7+9	4+12	a, c, c	Liu et al, 2005;
Yumai 56	China	1	7+8	5+10	a, b, d	Liu et al, 2005;

Yumai 57	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Yumai 6	China	null	7+9	5+10/2+12	c, c, d	Wang et al, 1993;
Yumai 62	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Yumai 63	China	null	14+15	3+12	c, h, b	Liu et al, 2005;
Yumai 69	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Yumai 7	China	1	14+15/20	5+9/2+12	a, h/e, g/a	He et al, 1992; Rabinovich et al, 2000a; Xue-Yong et al, 2002
Yumai 70	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Yumar	U.S.A.	1	7+8	3+12	a, b, b	Shan et al, 2007;
Yun 97169	China	2 ⁺	7+8	2+12	b, b, a	Liu et al, 2005;
Yuna	Russia	1/2*	7+8	2+12/5+10	a/b, b, a/d	Ya, 1997; Sobko and Sozinov, 1999;
Yunchun-33	China	1	7+8	4+12	a, b, c	Xue-Yong et al, 2002
Yunfengzao 101	China	1	20	2+12	a, e, a	Liu et al, 2005;
Yunfengzao 898	China	1	7+8	5+10	a, b, d	Liu et al, 2005;

Yunmai 39	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Yunmai 42	China	2 [*]	7	5+10	b, 7, d	Liu et al, 2005;
Yunmai 44	China	null	7+9	5+10	c, c, d	Liu et al, 2005;
Yunmai 46	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Yunmai-25	China	1	7+9	5+10	a, c, d	He et al, 1992;
Yunnan	China	1	7+8	5+10	a, b, d	Wang et al, 1993;
Yunnat-odesskii	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Yunong 94268	China	2 [*]	7+9	5+10	b, c, d	Liu et al, 2005;
Yunong 95339	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Yuregir	Turkey	2 [*]	17+18	2+12	b, i, a	Sanal et al, 2005
Yutakakomugi	Japan	2 [*]	7+8	2.2+12	b, b, f	Nakamura, 2000a;
Yuvileina-75	Ukraine	2 [*] /1	7+9	5+10	b/a, c, d	Ya, 1997;
Yuxi-10	China	1	7+9	4+12	a, c, c	He et al, 1992;

Yuyakekomugi	Japan	null	7+9	2.2+12	c, c, f	Nakamura, 2000a;
Yuzhan-2000	China	null	13+19	2+12*	c, g, j	Xu et al, 2003
Yuzhnaya-12	Kazakhstan	2*	7*+8	5+10	b, u, d	Urazaliev,2003;
Yuzhnaya-zarya	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997;
Yuzimai	China	null	7+8	2+12	c, b, a	He et al, 1992;
Za-77	Pakistan	1	13+16	5+10	a, f, d	Tahir et al, 1995;
Zaafrane	Tunesia	1	17+18	5+10	a, i, d	Rabinovich et al, 2001;
Zabava-odesskaya	Ukraine	1/2*	7+8	5+10	a/b, b, d	Rabinovich et al, 2001;
Zaff	Australia	2*	17+18	2+12	b, i, a	Cornish, 2005
Zagorka	Bulgaria	2*	20	-	b, e,	Vallega, 1988;
Zagrepcanka-2	Croatia	1	6+8/7+8	2+12	a, d/b, a	Vapa, 1989;
Zaliv	Ukraine	1	7+8/7+9	5+10	a, b/c, d	Rabinovich et al, 2001;
Zambezi	Zimbabwe	2*	14+15	5+10	b, h, d	Cornish, 2005;

Zamena	Russia	null/2*	7+9	5+10	c/b, c, d	Rabinovich et al, 2000a;
Zamindar-80	Pakistan	1	17+18	5+10	a, i, d	Tahir et al, 1995;
Zaohongyu	China	null	7+9	2+12/5+10	c, c, a/d	He et al, 1992;
Zapfs-oberfrankischer-land	Germany	1	6+8	2+12	a, d, a	Rabinovich et al, 2000b; Gregova et al, 1999;
Zaragoza-s-75	Mexico	2*	17+18	2+12/5+10	b, i, a/d	Labuschagne and Deventer, 1995; Cornish, 2005
Zargoan-79	Pakistan	1	17+18	5+10	a, i, d	Tahir et al, 1995;
Zarrin	Iran	2*	17+18/13+16	2+12	b, i/f, a	Bahraei et al, 2004;
Zarya	Russia	1/null	7+9/20	5+10/2+12	a/c, c/e, d/a	Gregova et al, 1999;
Zarya	Russia	2*	7+9	5+10	b, c, d	Ya, 1997;
Zaryanka	Russia	2*	7+8	5+10	b, b, d	Rabinovich et al, 2001;
Zastava	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989; Sobko and Sozinov, 1999;
Zbruch	Ukraine	1	7+9	5+10	a, c, d	Ya, 1997; Sasek et al, 1997;
Zdar	Czech Republic	null	7+9	2+12	c, c, a	Gregova et al, 1997;

Zebra	Sweden	2*	7+8	3+12	b, b,	Tohver et al, 2001, Tohner, 2007;
Zeeuwse	Netherlands	1	6+8	2+12	a, d, a	Gregova et al, 2004; Borojevic, 1990;
Zelengora	Yugoslavia	2*	7+9	5+10	b, c, d	Vapa, 1989;
Zemka	Ukraine	1/null/2*	7+9/7/7+8	5+10/2+12	a/c/b, c/a/b, d/a	Gregova et al, 2004;
Zemunka	Yugoslavia	null	7+9	2+12	c, c, a	Vapa, 1989;
Zena	Italy	2*	7+8	5+10	b, b, d	Borghi, 1995;
Zencirci-98	Turkey	2*	7+8	2+12	b, b, a	Sanal et al, 2005
Zenit	Italy	null	6+8	null	c, d, i	Anon, 1998;
Zenith	Australia	1	20	5+10	a, e, d	Cornish, 2005;
Zenith-mersey	Australia	1	20	5+10	a, e, d	Lawrence, 1986
Zenkojikomugi	Japan	null	7+8/7+9	2+12	c, b/c, a	Nakamura, 2000a;
Zentos	Germany	null	7+9	5+10	c, c, d	Kazman and Lein, 1996; Waga, 1992;
Zerdakia	Iraq	null	7+8	-	c, b,	Vallega, 1988; Anon, 1989;

Zernogradka-2	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990;
Zernogradka-3	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990;
Zernogradka-5	Russia	2*	7+9	5+10	b, c, d	Morgunov et al, 1990; Ya, 1997;
Zernogradka-6	Russia	1	7+9	5+10	a, c, d	Morgunov et al, 1990;
Zernogradka-8	Russia	1/2*	7+9	5+10	a/b, c, d	Ya, 1997; Sobko and Sozinov, 1999;
Zernokormovaya-50	Kazakhstan	2*	7+9	5+10	b, c, d	Urazaliev,2003;
Zg-2463-74	Croatia	2*	6+8	5+10	b, d, d	Rayfuse and Jones, 1993;
Zg-5554	Croatia	2*	7	5+10	b, a, d	Knezevic et al, 1993;
Zg-620	Croatia	1	7+8/6+8	2+12/5+10	a, b/d, a/d	Knezevic et al, 1993; Knezevic et al, 1993
Zg-6816	Croatia	2*	7	5+10	b, a, d	Knezevic et al, 1993; Knezevic et al, 1993;
Zg-baranjka	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989;
Zg-dika	Croatia	1	7+8/6+8	2+12	a, b/d, a	Vapa, 1989; Pogna et al, 1989; Knezevic et al, 1993; Knezevic et al, 1993
Zg-lonja	Croatia	1	20/7+9	2+12/5+10	a, e/c, a/d	Vapa, 1989; Knezevic et al, 1993; Knezevic et al, 1993; Knezevic et al, 1993

Zg-miljenka	Croatia	1	20	5+10	a, e, d	Vapa, 1989; Knezevic et al, 1993;
Zg-nova-zlatna	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989;
Zhangchun-11	China	1	22	5+10	a, k, d	Xue-Yong et al, 2002
Zhejiang-4	China	2*	7+9	5+10/2.2+12	b, c, d/f	He et al, 1992;
Zhemai-1	China	2*	7+8	2.2+12	b, b, f	He et al, 1992; Nakamura, 2000b; Khan et al, 1989
Zhemchuzhina-zavolzhya	Russia	2*	7+9	2+12	b, c, a	Sykurov, 1992; Glu-A1a; Glu-B1b; Glu-D1a; Morgunov et al, 1990; Bespalov, 1994
Zheng 81-1	China	null	7+8	5+10	c, b, d	He et al, 2005;
Zheng 8329	China	null	7+8	2+12	c, b, a	He et al, 2005;
ZHENGJIANG8709/3/CHUM18/ /JUP/BJY	CIMMYT-8TH HRWSN	null	17+18	2+12	c, i, a	Payne and Pena, 2006;
Zhengyin-1	China	1	6+8	2+12	a, d, a	He et al, 1992; Khan et al, 1989
Zhengzhou 7898	China	null	7+8	5+10	c, b, d	Liu et al, 2005;
Zhengzhou 81-1	China	null/1	7+8	5+10	c/a, b, d	Liu et al 2008
Zhengzhou 9023	China	null	7+8	2+12	c, b, a	Liu et al, 2005;

Zhengzhou 974	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zhengzhou 992	China	null	17+18	2+12	c, i, a	Liu et al, 2005;
Zhengzhou-683	China	1	20	2+12	a, e, a	He et al, 1992; Glu-A1c; Glu-B1i/e; Glu-D1g/a; Xue-Yong et al, 2002
Zhengzhou-742	China	null	20	2+12/5+10	c, e, a	Wang et al, 1993; Khan et al, 1989
Zhengzhou-83203	China	null	7+9	5+10	c, c, d	He et al, 1992;
Zhengzhou-8603	China	1/2*	7+9	5+9	a/b, c, g	Xue-Yong et al, 2002
Zhengzhou-871	China	2*	7+9	2+12/5+10	b, c, a/d	He et al, 1992; Khan et al, 1989
Zhengzhou-872	China	2*	7+9	2+12	b, c, a	He et al, 1992;
Zhengzi-8204-0-12-2	China	1	7+8	2+12	a, b, a	Wang et al, 1993;
Zhetysu	Kazakhstan	2*	7*+8	2+12/2+10	b, u, a/e	Absattarova, 2005; Urazaliev,2003;
Zhigulevskaya	Russia	2*	7+9	5+10	b, c, d	Sykurov, 1992;
Zhiniz	Kazakhstan	2*	7*+9	5+10	b, c, d	Morgounov et al 2008
Zhirovka	Russia	2*	7+9	5+10	b, c, d	Rabinovich et al, 2000a;

Zhong 91162	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zhongliang 88303	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zhongliang 88375	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zhongliang 93646	China	1	7+8	2+12	a, b, a	Liu et al, 2005;
Zhongmai 16	China	null	7+9	4+12	c, c, c	Liu et al, 2005;
Zhongmai 9	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zhongning-b	China	1	17+18	2+12	a, i, a	Wang et al, 1993;
Zhongyou 14	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Zhongyou 16	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Zhongyou 8	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zhongyou 9507	China	1	7+9	5+10	a, c, d	Liu et al, 2005;
Zhongyou 9701	China	null	7+8	5+10	c, b, d	Liu et al, 2005;
Zhongyou 9814	China	null	7+8	5+10	c, b, d	Liu et al, 2005;

Zhongyou 9843	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Zhongyou 9844	China	1	7+8	5+10	a, b, d	Liu et al, 2005;
Zhongyou-8	China	1	7+9	2+10	a, c, e	Xue-Yong et al, 2002
Zhongyu 415	China	null	14+15	4+12	c, h, c	Liu et al, 2005;
Zhongyu 5	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Zhongyu 6	China	1	7+8	4+12	a, b, c	Liu et al, 2005;
Zhongzhou 81-1	China	null	7+8	5+10	c, b, d	Liu et al, 2005;
Zhongzou-8131-1	China	1	7+9	5+10	a, c, d	He et al, 1992; Xue-Yong et al, 2002
Zhongzuo 8131-1	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zhou 91177	China	null	7+9	2+12	c, c, a	Liu et al, 2005;
Zhoumai 13	China	1	7+9	2+12	a, c, a	Liu et al, 2005;
Zidlochovicka-jubilejni-osinata-i	Czech Republic	2*/null	7+9/6+8	2+12/5+10	b/c, c/d, a/d	Gregova et al, 1999;
Zimorodok	Russia	2*/null	7+8	5+10/2+12	b/c, b, d/a	Rabinovich et al, 2000a;

Zirka	Ukraine	1/2*	7+8/7+9	5+10	a/b, b/c, d	Ya, 1997;
Zitarka	Croatia	1/null	7+9/7+8	2+12	a/c, c/b, a	Vapa, 1989; Borojevic, 1990; Jurkovic et al, 2000; Horvat et al, 2002;
Zitnica	Yugoslavia	1	7+9	2+12	a, c, a	Vapa, 1989; Knezevic et al, 1993; Kolster et al, 19881; Vapa and Sanic, 1988;
Ziyabey-98	Turkey	2*	7	5+10	b, a, d	Sanal et al, 2005
Zlagoda	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;
Zlata	Russia	2*	7*+8	5+10	b, u, d	Morgounov et al 2008
Zlatiborka	Yugoslavia	1	7+9	5+10/2+12	a, c, d/a	Soltes-Rak, 1991; Kolster et al, 19881;
Zlatna-dolina	Croatia	1	6+8	2+12	a, d, a	Vapa, 1989;
Zlatoklasa	Croatia	1	7/6+8	5+10	a, a/d, d	Vapa, 1989; Vapa and Sanic, 1988; Vapa et al, 1988
Zlatostrui	Bulgaria	2*	13+16	5+10	b, f, d	Galova et al, 2001
Znakhidka-odeska	Ukraine	1	7+8	5+10	a, b, d	Rabinovich et al, 2001;
Zodiac	U.K.	null	6+8	2+12	c, d, a	Waga and Bietz, 1997;
Zolotava	Ukraine	2*	7+9	5+10	b, c, d	Rabinovich et al, 2001;

Zoryanka-odesskaya	Ukraine	1/2*	7+8/7+9	5+10	a/b, b/c, d	Rabinovich et al, 2001;
Zrenjaninka	Yugoslavia	null	7+9	2+12	c, c, a	Vapa, 1989;
Zvezda	Russia	null	7+9	5+10	c, c, d	Ya, 1997; Rabinovich et al 2001
Zvezda	Yugoslavia	null	7+9/6+8	5+10	c, c/d, d	Vapa, 1989; Knezevic et al, 1993;