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RESULTS OF THE NINTH INTERNATIONAL BREAD WHEAT SCREENING NURSERY (IBWSN) 1975–76

CIMMYT

CENTRO INTERNACIONAL DE MEJORAMIENTO DE MAIZ Y TRIGO
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ACKNOWLEDGMENTS

The data and cooperation received from many cereal scientists and institutions world wide, are greatly appreciated.

GLOSSARY OF VARIABLE NAMES USED IN THE TABLES.
GLOSARIO DE NOMBRES VARIABLES USADOS EN LAS TABLAS.
GLOSSAIRE DES NOMS DES VARIABLES UTILISES DANS LES TABLEAUX.

TABLE ABBREVIATION	VARIABLE NAME	NOMBRE DE LA VARIABLE	NOM DE LA VARIABLE
ALT BLT	Alternaria blight (0–9 scale)	Tizón por Alternaria (escala 0–9)	Alternaria (echelle 0–9)
ANT DMGE	Ant damage percentage	Porcentaje de daño de hormigas	Dégâts dus aux fourmis en pourcentage
APHD DMGE	Aphid damage percentage	Porcentaje de daño de áfidos	Dégâts dus aux pucerons en pourcentage
ARMY WORM	Army worm percentage	Porcentaje de gusano cogollero	Chenille soldat en pourcentage
BACT STRP	Bacterial stripe (0–9 scale)	Rayado bacteriano (escala 0–9)	Rayee bacterienne (echelle 0–9)
BIRD DMGE	Bird damage percentage	Porcentaje de daño de pájaros	Dégâts dus aux oiseaux en pourcentage
BYDV	Barley yellow dwarf virus (0–9 scale)	Enanismo amarillo de la cebada (escala 0–9)	Virose jaune de l'orge (echelle 0–9)
COVD SMUT	Covered smut percentage	Porcentaje de carbón cubierto	Charbon couvert en pourcentage
EARS /M^2	Ears per square meter	Espigas o mazorcas por metro cuadrado	Epis par metre^2
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activitè de α amylase (eu secondes)
FERT %	Fertility percentage	Porcentaje de fertilidad	Fertilité en pourcentage
FLOW DAYS	Number days to flower	Días a floración	Nombre de jours a la floraisón
FRST DMGE	Frost damage percentage	Porcentaje de daño por heladas	Dégâts par la gelée en pourcentage
FUS WILT	Fusarium wilt percentage	Porcentaje de marchitez por Fusarium	Fusarium en pourcentage
GERM %	Germination percentage	Porcentaje de germinación	Germination en pourcentage
HAIL DMGE	Hail damage percentage	Porcentaje de daño por granizo	Dégâts dûs á la grêle en pourcentage
HELM	Helminthosporium (0–9 scale)	Helminthosporium (escala 0–9)	Helminthosporium (echelle 0–9)
KERN APP	Kernel appearance	Apariencia del grano	Apparence du grain
LEAF FIRE	Leaf fire (0–9 scale)	Tizón foliar (escala 0–9)	Jaunissement des feuilles (echelle 0–9)
LEAF RUST	Leaf rust (Cobb scale)	Roya de la hoja (escala de Cobb)	Rouille brune (echelle de Cobb)
LODG %	Lodging percentage	Porcentaje de acame	Verse en pourcentage
LSE SMUT	Loose smut percentage	Porcentaje de carbón volador	Charbon nu en pourcentage
MAT DAYS	Number days to maturity	Número de días a la madurez	Nombre de jours a la maturation
MST %	Moisture percentage	Porcentaje de humedad	Humiditè en pourcentage
NECK BRK	Neck break percentage	Porcentaje de rotura del cuello	Cassure du pédoncule en pourcentage
NET BLOT	Net blotch (0–9 scale)	Mancha reticular (escala 0–9)	Helminthosporium de l'orge (echelle 0–9)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (talles/metre^2)
PLNT HT	Height (cm)	Altura (cm)	Hauteur (cm)
PLNT WT	Plant weight (grams)	Peso de la planta (gramos)	Poids de la planté (grames)
POWD %	Powdery mildew percentage	Porcentaje de mildiú polvoriento	Oidium en pourcentage
PROT %	Protein percentage	Porcentaje de proteína	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Piétin verse en pourcentage
SCAB %	Scab percentage	Porcentaje de roña	Fusarium de l'epi en pourcentage
SCLD %	Scald percentage	Porcentaje de escaldadura	Rhyncosporium en pourcentage
SDMT INDX	Sedimentation index (cc)	Indice de sedimentación (cc)	Indice de sédimentation (cc)
SEED TYPE	Seed type (L=large, M=medium, S=small)	Tipo de semilla (L=grande; m=mediano, s=pequeño)	Type de grain (L=large, M=moyen: S=petit)
SEPT NODO	Septoria nodorum (0–9 scale)	Septoria nodorum (escala 0–9)	Septoria nodorum (echelle 0–9)
SEPT SPP.	Septoria spp. (0–9 scale)	Septoria spp. (escala 0–9)	Septoria spp. (echelle 0–9)
SEPT TRIT	Septoria tritici (0–9 scale)	Septoria tritici (escala 0–9)	Septoria tritici (echelle 0–9)
SHTR %	Shattering percentage	Porcentaje de desgrane	Chute de grains en pourcentage
SMLS SMUT	Semi-loose smut percentage	Porcentaje de carbón semi-volador	Charbon semi-nu en pourcentage
SPOT BLOT	Spot blotch (0–9 scale)	Tizón de la hoja (escala 0–9)	Tache de la feuilles (echelle 0–9)
STEM RUST	Stem rust (Cobb scale)	Roya del tallo (escala de Cobb)	Rouille noire (echelle de Cobb)
STRP RT.H	Stripe rust (head) percentage	Porcentaje de roya lineal (espiga)	Rouille jaune sur l'epi en pourcentage
STRP RT.L	Stripe rust (leaf) (Cobb scale)	Roya lineal (hoja)(escala de Cobb)	Rouille jaune sur feuilles (echelle de Cobb)
TEST WT	Test weight (kg/hl)	Peso hectolítrico (kg/hl)	Poids specifique (kg/hl)
1000 G.W.	1000 grain weight (grams)	Peso de 1000 granos (gramos)	Poids de 1000 grains (grames)
YELL BERR	Yellow berry percentage	Porcentaje de panza blanca	Mitadinage en pourcentage
YIELD KG/HA	Yield kg/ha	Rendimiento kg/ha	Rendement kg/ha

RESULTS OF THE NINTH INTERNATIONAL BREAD WHEAT SCREENING NURSERY (IBWSN)

1975–1976

INTRODUCTION

The International Bread Wheat Screening Nursery (IBWSN) is assembled by CIMMYT in Mexico using the best yielding advanced lines with rust resistance, in Mexico. The IBWSN is distributed to many cooperators world wide, with the following objectives: (1) to make improved germ plasm available to cooperators for direct yield testing, multiplication and release; (2) to provide a large array of genotypes for use as parental materials in breeding programs; (3) to generate agronomic and pathological information from many locations for further use in the CIMMYT breeding program; (4) to provide early identification of lines that may have wide adaptation.

MATERIALS AND METHODS

The 9th IBWSN consisting of 386 entries was assembled in 1975 after the harvest in Yaqui Valley, Sonora, Mexico.

Advanced lines were evaluated for yield, resistance and other agronomic characteristics. All lines were compared in replicated yield trials with the most widely grown cultivars in Yaqui Valley (Jupateco 73 and Siete Cerros). Only lines equal to or better yielding than the standard checks and resistant to rusts, were included in the 9th IBWSN.

For each advanced line, a separate small multiplication plot was grown to produce sufficient seed to make-up this nursery. Before distribution, the seed was treated with Vitavax, a seed fungicide.

The 9th IBWSN was send to 190 cooperators through-out the world as a non-replicated trial. Table 1 shows the cooperating institutions which returned reports, and it lists those data which were used at each institution to compile this report. Some information was not used in summarizing the results, because the data were given in such a way, that they could not be transformed.

Rust reactions were most commonly recorded with the international rust scale noting the percentage infected area and reaction type. These rust notes were converted to a coefficient of infection (CI) as suggested by W.Q. Loegering (USDA International Spring Wheat Rust Nursery, 1959). The coefficient of infection is calculated by multiplying the percentage of infection by a response value assigned to each reaction type.

The response values are as follows:

Reaction type	Abbreviations	Response value
0	0	0.0
Very resistant and resistant	VR and R	0.2
Moderately resistant	MR	0.4
Intermediate	M or X	0.6
Moderately susceptible	MS	0.8
Susceptible	S and VS	1.0

Reactions to *Septoria* disease and to powdery mildew are presented by using a scale of 1–9 as described by Prescott and Saari. (Plant Disease Reporter, 59:377-380, 1975).

RESULTS AND DISCUSSION

Table 2 gives the overall summary means for days to heading and to maturity, reactions to *Septoria tritici, S. nodorum,* plant height, yield and coefficients of infection for three rusts. Table 2 is arranged in order of entry number. Grain color is given for all entries; R indicates red, B indicates white and S indicates soft.

The ten per cent highest overall average yielding lines (39 lines) based on 52 locations are given in table 3. The 39 lines are largely represented by the crosses Pavon "S" CM-8399; Moncho"S" CM-8288; Huacamayo"S" CM-8671; Emu"S" CM-8327; Bluejay"S" CM-5287; Alondra "S" CM-11683; Chiroca"S" CM-8963; Cuckoo"S"; Hork"S" CM-8874; Goldfinch and the standard check cultivars Siete Cerros 66 and Jupateco 73.

Table 4 shows the 43 entries which appeared among the top ten per cent yielders at 10 locations or more, of the 52 locations. Many entries are common to tables 3 and 4, which fact indicates their wide adaptation.

Most of these crosses were also among the top average yielders in the 8th IBWSN (CIMMYT Inf. Bull 25). Also results from the 13th International Spring Wheat Yield Nursery (CIMMYT Inf. Bull 40) confirm the wide adaptation of crosses Pavon"S" CM-8399; Bluejay"S" CM-5287; Moncho"S" CM-8288; and Hork"S" CM-8874.

Entries of the 9th IBWSN which have been or are being considered for release as cultivars in various countries, are given below:

Entry No.	Cross or CIMMYT Name	Pedigree	Release under name	Year of release	Country of release
Released					
165	Pavon "S"	CM-8399-D-4M-3Y-1M-1Y-1M-0Y	Pavon 76	1976	Mexico
24	Goldfinch "S"	II-23651-E1	Sunnine	1976	Lebanon
29	Cuckoo "S"	II-28424-8Y-1M-1Y-0M	Haramoun	1976	Lebanon
72	Sapsucker "S"	Br 69-1Y-3M-3Y-0M	Tesopaco 76	1976	Mexico
90	Bluejay "S"	CM-5287-J-1Y-2M-2Y-3M-0Y	Nacozari 76	1976	Mexico
Considered for released					
	Chiroca "S"	CM-8913			Spain and India
	Alondra "S"	CM-11683			Brazil

Tables 5, 6 and 7 list 107, 97 and 81 entries respectively that had an average CI of less than 5.0 for stem rust, leaf rust, and stripe rust, respectively.

In our experience, resistance to stem rust of CIMMYT derived lines has been stable not only in Mexico but in many other locations. The results presented here indicate a similar trend for leaf and stripe rust resistance. However, there are presently not enough long term observations to substantiate that leaf and stripe rust resistances are approaching the stability that is now found for stem rust resistance.

Table 8 lists 101 entries that had an average score to powdery mildew of less than three, on a scale of 1–9, based on reactions from Poland, West Germany, Greece, Spain and Iran. The cultivar Siete Cerros appears in this group and most of the 101 entries have Siete Cerros in their pedigree. This suggests that the resistance to powdery mildew may be derived from Siete Cerros.

Table 9 shows 42 entries with an average score of four or less to *Septoria tritici* on a scale of 1–9 based on reports from eight locations. This indicates that a useful level of resistance has been incorporated in semidwarf wheats.

A report from R.L. Gallun, USDA, ARS., Indiana, which gave reactions to races GP, B, C and D of hessian fly, indicates that most entries were susceptible, two lines showed resistance to race GP, and several segregated. To race GP, entry numbers 7 and 19 were resistant and entries 1, 2, 3, 4, 5, 6, 8, 9, 12, 13, 14, 16, 17, 18, 20, 25, 34, 117, 118, 119, 188, 189, 216, 217, 221, 222, 223, 226, 227, 231, 232, 233, 234, 235, 245, 248, 249, 254 and 256 segregated for resistance and susceptibility. The following entries segregated for resistance and susceptibility to race B: 262 and 263; to race C: 201, 202, 203, 204, 205, 249 and 328; to race D: 28, 31, 36 and 63.

A report from I.A. Watson, University of Sydney, Australia shows that the following entries were seedling resistant to the two stem rust races 34-2, 4, 5, 7, 11 and 34-1, 2, 3, 4, 5, 6, 7, 11: entries 8, 10, 11, 22, 23, 27, 28, 31, 34, 41, 46, 47, 49, 77, 78, 117, 165, 166, 169, 198, 205, 206, 207, 208, 211, 212, 213, 242, 243, 244, 251, 262, 263, 264, 288, 296 and 332.

TABLE 1. LIST OF COOPERATORS AND LOCATIONS WHO RETURNED DATA FOR 9th IBWSN.

Locations No.	Institution	Country	Elevations (mts)	Planting date	Harvesting date	Heading date	Maturity	Septoria tritici	Septoria nodorum	Plant height	Yield	Stem rust	Leaf rust	Stripe rust
						1	2	3	4	5	6	7	8	9
	AFRICA													
				M/D/Y*	M/D/Y*									
6	Bahteem	Cairo, Egypt	21	12/8/75	5/20/76	X	X			X	X		X	
7	Giza	Giza, Egypt	21	11/28/75	5/27/76							X	X	
8	Sakha	Kafr El Sheikh	0	11/20/75	5/25/76									
8	Alad	Egypt	-	-	-	X	X			X	X	X	X	
9	Mataana	Upper, Egypt	21	8/12/75	8/5/76	X				X	X			
29	Gezira	Sudan	411	10/25/75	-	X	X			X	X			
31	Khashm El Gierba	Kassala, Sudan	400	11/13/75	-	X	X							
10	Kulumsa	Arusi, Ethiopia	2150	7/8/76	-	X	X	X	X	X	X	X	X	X
181	Holetta	Shoa, Ethiopia	1700	7/6/76	12/2/76	X	X	X		X				
14	Njoro	Rift Valley, Kenya	2165	-	-							X		X
2[illegible]	Salisbury Research Station	Salisbury, Rhodesia	1486	12/11/75	3/15/76	X	X			X	X	X		
305	Longgewens,	Cape, South Africa	91	5/12/76	11/15/76	X			X	X	X	X		
27	Agricultural Research Station	Orange Freestate, South Africa	1631	10/2/75	11/21/76	X	X			X	X	X	X	
27	" "	Bethlehem	1631	9/23/76	1/2/77	X	X		X	X	X	X		
33	Agronomic Wheat Research Project	Kilmanjaro, Tanzania	1250	5/26/76	10/-/76	X				X				
314	Luhotu	Zaire	1548	4/14/76	-						X			
176		Cameroun	-			X				X			X	X
303	Wassande	Cameroun	1400	8/25/75	12/10/75	X	X			X	X			
21	Kadawa	Kano, Nigeria	1000	12/9/75	3/26/76	X				X	X			
35	Beja	Tunisia	150	-	-	X					X			X
304	Centro FAO,	Guédé, Senegal	10	12/6/75	3/23/76	X	X			X	X			

TABLE 1. CONTINUATION

Locations No.	Institution	Country	Elevations (mts)	Planting date	Harvesting date	Heading date 1	Maturity 2	Septoria tritici 3	Septoria nodorum 4	Plant height 5	Yield 6	Stem rust 7	Leaf rust 8	Stripe rust 9
	ASIA			M/D/Y*	M/D/Y*									
44	I.A.R.I.,	Pusa, Bihar, India	51	12/3/75	4/19/76					X			X	
48	I.A.R.I., Indore	Mathya Pradesh, India	303	12/6/75	5/12/76					X	X	X	X	
49	Niphad	Maharashtra, India	549	12/9/75	3/18/76	X	X			X	X	X	X	
50	I.A.R.I	New Delhi, India	22	11/27/75	5/6/76					X	X		X	X
50	I.A.R.I.	New Delhi, India	22	11/20/75	4/30/76					X		X	X	
51	P.A.U.,	Ludhiana, Punjab, India	247	-	-	X				X			X	X
52	Durgapur	Rajashthan, India	450	11/27/75	-					X		X	X	X
53	U.P.A.U.,	Pantnagar, U. P. India	243	11/28/75	4/20/76					X			X	
59	A.R.I. TARNAB	N.W.F.P., Pakistan	340	11/13/76	-	X	X			X	X			
61	P.A.R.I,	Lyallpur, Punjab, Pakistan	313	11/22/75	4/30/76	X	X			X			X	
62	A.R.I,	Tandojam, Sindh, Pakistan	19	12/5/75	5/20/76						X	X	X	
319	Islamabad	Pakistan	526	11/25/75	-							X	X	X
42	Joydelpur	Dacca, Bangladesh	9	11/26/75	3/26/76	X	X			X	X		X	
43	ISHURDI	Bangladesh	7	12/2/75	4/6/76	X	X			X	X		X	
55	Bhairahawa	Lumbini, Nepal	105	-	-	X	X			X			X	
320	Rampur Agricultural Station	Chitwan, Nepal	228	12/5/76	-	X							X	
66	Chieng Mai University	Chieng Mai, Thailand	300	12/20/75	-	X	X			X	X			
207	Pacet	Java, Indonesia	1150	10/20/75	-							X		
54	Hokkaido Kitami Agricultural Experimental Station	Hokkaido, Japan	196	5/5/76	-	X	X			X			X	
64	Mokpo	Chunnam, South Korea	25	10/20/75	6/20/76	X	X			X	X			
41	Darul Aman Research Station	Kabul, Afghanistan	1803	-	-	X	X	X	X	X		X	X	X

TABLE 1. CONTINUATION

Locations No.	Institution	Country	Elevations (mts)	Planting date	Harvesting date	Heading date 1	Maturity 2	Septoria tritici 3	Septoria nodorum 4	Plant height 5	Yield 6	Stem rust 7	Leaf rust 8	Stripe rust 9
	MIDDLE EAST			M/D/Y*	M/D/Y*									
115	E.B.Z.A.E.	Izmir, Turkey	10	11/10/75	-									
261	Southeastern Anatolia, Regional Agricultural Research Institute	Diyarbakir, Turkey	660	10/2/75	7/8/76	X	X					X	X	X
101	Abu Ghraib	Baghdad, Iraq	34	11/25/75	5/22/76	X	X			X	X	X	X	X
107	'gricultural Research Institute Tel Amara	Beka'a Valley, Lebanon	950	11/18/75	6/19/76	X	X							
103	Hazera Seed LTD	R.D. SDE-GAT Israel	120	11/23/75	-								X	X
258	The Volcanic Center	Bet Dagan, Israel	30	12/4/75	5/16/76	X				X			X	X
99	Aragi Mahale	Gorgan, Iran	132	11/26/75	6/26/76	X	X			X	X			
317	AUSSEFERA	Taiz, Yemen	1350	12/8/75	3/30/76	X	X							
95	Athalassa	Nicozia, Cypres	153	11/26/75	6/10/76	X						X	X	
311	IZRA Agricultural Research Station	ACSAD, Syria	575	-	-									
	EUROPE													
90	COGULLADA	Zaragoza, Spain	202	1/7/76	7/3/76	X				X	X			
310	Rancho de La Merced	Cadiz, Spain	21	1/4/76	6/7/76	X				X	X			
308	Backweston	Kildare, Ireland	50	4/9/76	9/6/76	X	X			X	X			

TABLE 1. CONTINUATION

Locations No.	Institution	Country	Elevations (mts)	Planting date	Harvesting date	Heading date	Maturity	Septoria tritici	Septoria nodorum	Plant height	Yield	Stem rust	Leaf rust	Stripe rust
						1	2	3	4	5	6	7	8	9
				M/D/Y*	M/D/Y*									
226	Research Institute of Crop Production	Prague, Chekoslovaquia	350	4/2/76	8/20/76	X	X			X				
309	ROSLIN	HenryKow, Poland	220	4/3/76	8/20/76	X	X		X	X	X			
85	I.C.C.P.T. Fundulea	Ilfov, Rumania	66	10/20/75	7/20/76	X				X			X	
74	Plant Breeding Institute	Thessaloniki, Greece	10	-	-	X	X			X	X	X		
311		Gelderland, Netherlands				X	X							
316	Cebeco, Lelystad	Netherlands	-4	3/18/76	8/12/76	X				X				
	AUSTRALIA and NEW ZEALAND = OCEANIA													
313	Roseworthy Agricultural College	South Australia	60	6/17/76	12/30/76			X		X	X	X		
	Sydney University Cesth Hill	N.S.W., Australia												
	Bayerische Landesanstalt F. Bodenkuldur und Pflanzenbaw	Bavaria, West Germany	476	3/18/76	8/3/76									

TABLE 1. CONTINUATION

Locations No.	Institution	Country	Elevations (mts)	Planting date	Harvesting date	Heading date 1	Maturity 2	Septoria tritici 3	Septoria nodorum 4	Plant height 5	Yield 6	Stem rust 7	Leaf rust 8	Stripe rust 9
	NORTH AMERICA													
120	University of Alberta	Alberta, Canada	677	5/10/76	9/10/76	X	X			X	X			
141	Dekalb, Casselton	North Dakota, USA.	208	-	-								X	
	USDA-ARS, Purdue University	Indiana, U.S.A.	-	-	-									
126	CIAB/INIA Celaya	Guanajuato, Mexico	1765	-	-								X	
127	CIMMYT-Guadalajara	Jalisco, Mexico	-	-	-								X	
128	CIMMYT, El Batán	México, Mexico	2249	5/20/75	10/10/75	X							X	X
129	CIMMYT, Toluca	México, Mexico	2640	5/20/75	10/25/75	X						X	X	X
130	Navidad	Nuevo León, Mexico	537	1/15/76	7/21/76	X				X	X			
131	Los Mochis	Sinaloa, Mexico	15	11/24/76	4/10/76								X	
132	CIMMYT-Ciudad Obregón, Son.	Sonora, Mexico	38	11/15/75	4/20/76	X					X		X	
265	INIA, Delicias	Chihuahua, Mexico	1170	1/18/76	6/25/76	X	X			X	X			
328	CIMMYT, Patzcuaro	Michoacán, Mexico	-	6/5/75	10/27/75			X						
329	CIMMYT, Río Bravo-INIA-	Tamaulipas, Mexico	-	-	-								X	
	CENTRAL AMERICA													
216	Estación Experimental Fabio Baudrit	San José, Costa Rica	840	10/16/75	-	X	X			X	X			
307	I.C.T.A.	Chimaltenango, Guatemala	1790	8/12/76	2/11/77	X				X	X		X	
220	Hacienda Namasli	Managua, Nicaragua	480	10/18/75	-	X	X			X	X			
322	Santa Catarina	Intibuca, Honduras	1691	9/19/75	5/3/76	X	X			X	X			

TABLE 1. CONTINUATION

Locations No.	Institution	Country	Elevations (mts)	Planting date	Harvesting date	Heading date 1	Maturity 2	Septoria tritici 3	Septoria nodorum 4	Plant height 5	Yield 6	Stem rust 7	Leaf rust 8	Stripe rust 9
	SOUTH AMERICA													
164	Tibaitata	Cundinamarca, Colombia	2550	3/4/76	7/30/76	X	X	X		X	X			X
169	INIAP, Santa Catalina	Quito, Ecuador	3058	2/14/76	8/2/76	X				X	X			X
171	Estación Experimental Agropecuaria de la Sierra Central Huancayo	Junin, Peru	3245	11/14/75	6/20/76	X	X			X				X
158	San Benito	Cochabamba, Bolivia	2730	12/29/75	5/28/76	X	X			X	X			
166	Quilamapu	Chillán, Chile	144	9/22/75	-	X				X	X			X
155	Marcos Juárez	Cordoba, Argentina	110	7/21/76	12/13/76					X		X	X	
156	Tucuman	Tucuman, Argentina	460	6/18/76	11/3/76	X	X			X	X			
312	Klein, S. A.	Buenos Aires, Arg.	55	8/6/75	12/23/75	X	X	X		X	X	X	X	X
321	Centro de Investigación Agrícola-Cap Miranda	Tlapua, Paraguay	200	6/19/76	9/23/76					X		X	X	
295	PONTA GROSSA	Parana, Brazil	-	6/26/76	11/-/76	X	X	X	X	X	X	X	X	X
173	Colonia	Uruguay	81	9/3/75	1/28/76									

* M/D/Y = MONTH/DAY/YEAR

TABLE 2 .
Tabulation of maturity (days to heading and maturity), reaction to *Septoria tritici* and *Septoria nodorum* (average score on the 0-9 scale), plant height (in cm), yield and item, leaf and stripe rust (coefficient of infection CI.) for all entries over all locations.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Leaf rust CI	Stripe rust CI
1	Jupateco	R	Mexico	91.9	141.4	4.4	3.0	76.3	2633.0	10.3	13.0	21.9
2.	Super X	R	Mexico	95.1	140.4	4.5	4.4	76.2	2827.9	12.8	23.0	14.3
3.	Siete Cerros	B	Mexico	96.3	142.9	5.0	3.4	80.7	2698.1	13.0	36.0	20.0
4.	Tanori 71	R	Mexico	89.1	139.5	5.2	3.8	76.7	2960.3	7.2	11.1	13.1
5.	Torim F 73	B	Mexico	90.3	139.4	5.7	3.6	63.3	2420.9	8.3	8.0	5.6
6.	Potam 70	BS	Mexico	88.0	138.6	5.6	5.8	72.5	2516.0	5.0	8.4	7.4
7.	Anza*WW15*Mexicani*Karamu*Moghan 1*T4*LR x N10B-An_5^3	R		97.1	144.6	4.0	2.8	74.4	3079.8	16.0	28.6	7.2
8.	Nuri 70	B	Mexico	91.1	140.2	4.5	2.6	77.5	2849.9	12.0	16.8	11.9
9.	Cajeme 71	R	Mexico	98.0	145.3	5.1	4.4	68.9	2701.5	16.9	17.7	16.1
10.	Yecora 70	B	Mexico	90.8	138.4	5.1	4.0	63.2	2551.5	14.8	17.1	16.0
11.	Saric 70	R	Mexico	97.7	144.5	4.9	3.0	66.4	2348.3	11.5	15.9	6.4
12.	Pitic 62	RS	Mexico	97.8	146.3	3.7	1.8	86.4	3077.0	20.5	34.3	24.6
13.	Azteca 67	R	Mexico	91.7	141.0	4.5	2.2	78.5	2781.2	6.9	6.1	6.6
14.	Inia 66	R	Mexico	88.5	139.2	3.9	3.8	77.9	2526.4	8.0	21.6	12.3
15.	Penjamo 62	RS	Mexico	93.5	141.9	4.9	3.6	82.9	3029.6	17.5	13.0	17.0
16.	Meng-8156* Zaragoza 75 H-223-64-1Y-6E-1Y-1C-4Y-3E-100Y	RS	Mexico	103.1	150.6	4.0	1.8	72.7	2711.8	5.1	9.2	11.6
17.	Chanate#2* Salamanca 75	RS	Mexico	90.6	141.9	4.1	3.4	76.5	3018.0	5.8	10.1	7.2
18.	Cleopatra 74	R	Mexico	89.2	139.8	4.6	3.2	78.5	3001.0	1.6	12.2	13.6
19.	Jaral"S" II 18889-6T-4T-2T-1T-0Y	R	Argentina	95.9	147.1	4.9	4.8	77.7	2499.0	4.4	3.5	11.0
20.	Jupateco 73	R		92.6	144.1	5.4	3.2	80.4	3138.2	10.8	9.4	26.3
21.	Ara*My54-LR x 490/LR64 x Tzpp-Y54 II 21419-288	B	Lebanon	94.3	144.2	5.5	3.0	75.5	2883.3	13.4	7.6	16.1
22.	Choli* Pina 77 II 21515-1P-1P-3R-5M-0Y	BS	Mex-Chile	93.4	143.0	5.9	3.4	77.9	2668.5	6.7	17.8	3.3
23.	Tob-8156 II 22964-3Y-5M-0Y	R	Ethiopia	92.8	142.5	5.1	2.0	77.3	2729.5	7.5	7.1	12.3
24	((Kt54-N10B-21-1C)Kt54-Nar54-Drc)8156 x Pj*Goldfinch"S" II 23561-E1	B	Mexico	98.3	146.2	5.0	3.2	83.6	3104.4	7.2	20.7	4.7
25	Inia 66-Bb II 26478-34Y-1M-2T-4M-3S-0M	R[a]	Mexico	93.9	143.0	5.5	2.4	71.3	2841.0	4.7	6.0	16.0
26	Kal-Bb II 26992-30M-1Y-1M-3Y-0M	B	Mexico	91.0	141.0	5.5	3.0	61.3	2228.1	3.0	10.1	12.3
27	Kal-Bb II 26992-30M-300Y-300M-501Y-500M-0Y	B[a]	Mexico	91.8	141.1	4.0	3.0	86.4	3172.1	7.2	5.3	14.4

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Leaf rust CI	Stripe rust CI
28	Inia-Cno 67 II 28036-11M-1R-2M-1T-0M	R*	Mexico	88.5	138.9	5.6	3.0	76.8	2896.3	3.8	10.5	12.7
29	7C-On x Inia-B.Man = Cuckoo"S" II 28424-8Y-1M-1Y-0M	B	Mexico	89.7	139.8	3.6	3.4	77.8	3150.5	11.7	24.4	18.6
30.	Nad-LR64A x Bb"S" II 30756-3S-1M-1T-0R		Mexico	94.3	142.4	5.0	1.8	70.1	2892.0	5.8	7.9	13.8
31	Cno"S"-Pj62 x Gallo =Yding"S" II 30793-1M-2R-2M-0R	RS	Mexico	91.7	141.6	4.2	3.2	76.6	2978.5	11.3	6.0	10.7
32	Cno"S"-Pj62 x Gallo =Yding"S" II 30793-1M-2R-1M-2R-0R	RS	Mexico	91.9	143.1	5.4	4.2	74.8	3034.1	15.8	8.8	9.2
33	Cno"S"-Pj62 x Gallo =Yding"S" II 30793-1M-2R-2M-3T-1R-3R-0M	RS	Mexico	91.7	143.1	4.2	2.4	77.4	3070.6	23.1	7.6	6.4
34	Cno"S"-Pj62 x Gallo =Yding"S" II 30793-1M-2R-2M-3T-1R-1R-0M	RS	Mexico	91.8	143.0	5.4	3.4	77.5	3033.5	19.7	5.5	4.0
35	Cno-Inia"S" x HD 832-On II 30839-10M-3R-1M-0R	R	Mexico	89.6	141.7	5.9	3.0	74.4	2739.9	11.1	9.7	14.8
36	Cno-Inia"S" x HD 832-ON II 30839-10M-3R-1M-1R-1R-0M	R	Mexico	90.1	142.2	6.0	3.8	75.0	2652.1	8.3	7.1	9.7
37	Cal x Cno"S"-Son 64 II 30829-41M-1R-2M-8T-1R-0R	R	Mexico	89.3	139.8	5.6	2.2	69.9	2971.1	7.2	7.9	18.0
38	Jupateco "S" =Cocoraque 75 II 30842-58R-1M-4Y-0M	R	Mexico	91.8	142.1	4.1	2.0	73.4	2693.7	8.5	5.1	10.0
39	Anahuac=Papaju II 30842-5S-3M-2T-0R	R	Mexico	94.0	143.6	5.9	2.8	80.0	3065.5	13.3	6.4	15.8
40	Siete Cerros			96.1	143.0	5.9	3.8	81.2	2922.4	14.3	41.6	21.8
41	Inia"S"-Npo 63 II 32801-100R-102R-101M-100R-0S	B	Mexico	97.0	147.0	6.0	3.6	83.3	2979.4	3.2	15.7	6.9
42	Bb-Gallo/Cno-Son x Bb =Pollo"S" II 35129-26Y-2M-1Y-1M-1Y-0M	B	Mexico	94.7	143.9	5.2	4.0	76.2	2329.0	3.4	7.3	5.1
43	$Y50_E$-Kal^3 35158-5M(F_1)-31Y-0M-8M-0Y	R	Mexico	97.9	145.3	5.0	4.4	84.8	2861.5	15.7	39.4	2.9
44	$Y50_E$-Kal^3 35188-5M(F_1)-31Y-0M-17M-0Y	R	Mexico	97.6	145.8	4.9	5.8	84.0	2823.0	16.4	30.3	3.9
45	Cno-8156 x Tob-Cno(No66/12300 x LR64-8156) 38732-5T-2M-4R-0M	B	Mexico	95.2	144.1	4.6	2.4	66.5	2563.5	8.8	3.5	9.2
46	(Wtp_E-Nar59 x SE/Soty)Cno-8156 x Tob-Cno II 38830-1Y-4M-2Y-1M-1Y-0M	R	Mexico	96.6	146.8	4.5	2.4	86.2	2789.8	5.6	5.9	2.5
47	Bobito "S" II 38837-9Y-1M-1Y-2M-2Y-0M	R	Mexico	92.5	143.8	4.9	3.4	79.8	2678.6	3.6	8.5	14.3
48	No66-Bj66/Cno-8156 x On 38866-1Y-1M-3Y-1M-2Y-0M	R	Mexico	95.2	144.5	5.9	3.0	76.5	2685.1	7.3	7.9	10.7
49	Cno"S"-Pj62 x Cno"S"-On II 38915-3R-5M-4R-4M-0Y	R	Mexico	90.4	140.3	5.1	2.8	61.2	2219.4	11.7	3.9	1.8
50	Bb-Cno"S" x $JYCO_E$ II 39104-42R-7M-3R-3M-0R	R	Mexico	90.5	140.4	4.5	4.0	79.1	2900.6	9.5	9.4	15.8
51	7C-Cno x Inia/NP876-Pj62 x Cno II 39998-1M-1R-0R	R	Mexico	89.1	139.9	4.5	3.2	72.1	2174.1	2.3	13.9	17.8
52	Inia"S"-Az67/Inia-Cno"S" x Cal II 40007-2M-1R-0M	B	Mexico	90.9	142.1	4.1	3.2	62.3	2301.0	8.6	3.0	6.3
53	Inia"S"-Az67/Inia-Cno"S" x Cal II 40007-4M-5R-0M	R	Mexico	88.7	140.5	5.4	3.2	62.9	2587.7	7.2	0.6	4.3
54	Inia"S"-Az67/Inia-Cno"S" x Cal II 40007-12M-11R-0M	R	Mexico	89.7	142.2	4.5	3.2	59.9	2511.4	18.9	5.3	7.1
55	Inia"S"-Az67/Inia-Cno"S" x Cal II 4007-22M-11R-0M	B	Mexico	88.7	142.0	5.4	3.4	60.5	2336.9	8.5	2.8	4.9

Tabulation of maturity. Table 2 continued.

Entry	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Leaf rust CI	Stripe rust CI
56	Inia"S"-Az67/Inia-Cno"S" x Cal II 40007-28M-2R-0M	R	Mexico	88.7	139.4	4.4	2.4	52.1	2704.8	10.7	2.6	5.8
57	Cno-Inia"S" x Bb"S"-Nor67 II 40011-9M-4R-0M	R	Mexico	87.6	138.2	5.6	2.2	61.2	2483.8	6.5	2.3	4.8
58	Inia-Cno"S"^{2} x Cal/LR64^2-Son64 II 40029-2M-2R-0M	R	Mexico	90.8	139.8	4.2	3.2	73.9	2956.0	8.8	3.7	10.8
59	Inia"S"-Az67 x Bb#2 Resel =Inia"S"-Az67 x Yr Resel II 40040-6M-2R-0M	R	Mexico	91.7	141.2	4.7	2.4	59.0	2190.4	3.7	9.5	5.2
60	Tanori 71			87.8	137.5	6.4	2.8	73.0	2668.1	10.0	10.3	17.2
61	Inia-Cno"S" x Cal/Yr70 = Yecorato"S" II 40041-12M-7R-0M	R	Mexico	90.1	141.3	4.5	3.4	65.6	2566.0	11.2	2.9	5.0
62	Cno"S"^{2}xLR64^2-Son/Cno-Tota x Jaral II 41915-11R-0M	R	Mexico	88.5	140.0	4.9	2.0	71.5	2398.0	3.5	10.0	4.1
63	Bb-Cno"S"/Cno-Tota x Jaral II 41916-1R-100M-0M	R	Mexico	92.5	141.9	4.7	3.0	83.3	2846.0	3.2	9.3	15.7
64	UP301 x Son64-Pi62 Jt 35-2L	R	Leb-India	96.2	143.6	4.7	4.4	78.5	2950.7	18.0	35.9	25.0
65	Pj-Gb 55 x Nai 60 PK 594-80A-1A-0A	R	Pakistan	95.4	143.3	5.0	2.6	79.4	2653.4	19.0	34.3	16.0
66	Bulbul"S"=Pi62-Frond/Pi62-Mazoe x M.Pak PK 2858-7A-3A-4A-0A	B	Pakistan	94.3	142.5	4.7	3.2	87.0	3033.8	27.3	24.5	21.6
67	S331-Norteño J43-2L	B*	Leb-India	99.0	143.0	4.2	2.6	85.0	2233.8	9.1	2.0	10.7
68	Dibo-CTF A-7283-1P-3P-2P-0Y	R	Chile	104.3	149.7	3.0	1.6	81.9	2345.8	24.2	5.8	18.0
69	/Ofn(Yt54-N10B x LR64/Nfo)/Fr^2-Fn x Y^3-4777 A-9020-5P-1P-11P-0P	R	Chile	94.0	143.2	6.0	2.8	76.4	2432.8	6.2	26.2	7.7
70	Lee-RL2564 x Fr/Ias 54 Br-8706-13M-1Y-2M-0Y	R	Mexico	105.0	151.1	3.5	3.0	91.3	3056.0	13.3	9.5	2.0
71	Condor"S" = UQ 105	B	Australia	99.2	148.6	3.9	1.4	76.7	2386.8	12.8	12.0	4.2
72	Tesopaco 76 =Inia"S"-Soty x Czho BR69-1Y-3M-3Y-0M	RS	Mexico	94.0	143.6	4.5	2.6	87.5	3035.9	9.3	5.1	12.2
73	Tesopaco "S"=Inia"S"-Soty x Czho Br69-1Y-3M-5Y-0M	RS	Mexico	94.3	143.8	4.2	2.8	88.9	2948.2	5.9	5.1	11.1
74	Tesopaco "S"=Inia"S"-Soty x Czho Br69-1Y-3M-6Y-0M	RS	Mexico	94.0	143.3	4.4	2.8	87.7	3036.9	8.7	5.8	8.3
75	Tesopaco "S"=Inia"S"-Soty x Czho Br69-1Y-3M-7Y-0M	RS	Mexico	93.9	144.0	4.2	2.0	89.3	3014.5	5.2	7.0	11.7
76	Tesopaco "S"=Inia"S"-Soty x Czho Br69-1Y-3M-0Y	RS	Mexico	91.9	139.1	3.4	2.8	88.2	2918.7	7.0	5.4	8.7
77	(Bb"S"-Inia^2 x II 20350)^{2}F$_2$ CF 283-106R-1M-5R-0M	RS	Mexico	87.7	138.0	4.5	2.2	74.8	2362.3	3.7	9.3	12.4
78	Chanate x CC-Inia CM 1182-0L-1L-0L	R	Lebanon	90.9	140.7	4.7	2.6	71.6	2713.4	6.2	9.6	7.7
79	Canario"S" CM 2097-31M-1Y-2M-1Y-0M	BS	Mexico	95.3	143.7	4.9	2.6	73.4	2787.1	27.5	8.0	5.7
80	Jupateco 73	R	Mexico	92.1	140.3	5.5	3.0	79.5	2957.1	14.7	8.6	26.5
81	Canario"S" CM 2097-31M-1Y-1M-4Y-0M	BS	Mexico	94.5	141.2	4.6	2.4	70.6	2791.7	27.2	5.9	5.6
82	Canario"S" CM 2097-31M-1Y-1M-1Y-0M	BS	Mexico	93.7	140.5	5.0	3.2	70.4	2724.9	28.9	6.7	6.8
83	Sparrow"S" CM 2182-5M-1Y-2M-3Y-0M	RS	Mexico	94.6	144.5	5.0	1.8	82.4	2728.4	2.7	1.4	4.5

Tabulation of maturity. Table 2 continued.

Entry	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height	Yield kg/ha	Stem rust CI	Leaf rust CI	stripe rust CI
84	Fury x Cno"S"-No66 = Sajame"S" CM 4210-10Y-4M-3Y-2M-2Y-0M	B	Mexico	98.0	146.1	3.4	1.9	86.2	3014.0	5.6	20.6	1.0
85	Fury x Cno"S"-No66 = Sajame"S" CM 4210-10Y-4M-3Y-2M-2Y-0M	B	Mexico	95.3	144.7	4.1	1.6	85.3	2719.4	5.4	21.0	1.3
86	Fury x Cno"S"-No66 = Sajame"S" CM 4210-10Y-4M-8Y-2M-1Y-0M	B	Mexico	96.5	145.0	3.6	3.0	84.6	2655.9	6.8	22.7	0.8
87	Cno-7C x CC-Tob/S.D.648.5-8156(R) = Como"S" CM 4756-12Y-1M-3Y-0M	R	Mexico	97.8	145.6	4.6	2.0	81.4	2674.3	7.3	9.2	4.7
88	Cno-7C x CC-Tob/S.D.648.5-8156(R) = Como"S" CM 4756-12Y-1M-1Y-0M	R	Mexico	96.9	145.0	5.2	3.0	80.6	2835.1	6.6	9.5	5.4
89	Bluejay"S"=Tzpp-Pl x 7C = Nacozari 76 CM 5287-J-1Y-2M-1y-1M-0Y	R	Mexico	93.0	141.4	4.7	3.6	79.4	3008.0	10.2	26.3	4.2
90	Bluejay"S"=Tzpp-Pl x 7C = Nacozari 76 CM 5287-J-1Y-2M-2Y-3M-0Y	B	Mexico	93.1	141.4	4.5	2.8	79.2	3296.0	13.4	26.4	18.8
91	Bluejay"S"=Tzpp-Pl x 7C = Nacozari 76 CM 5267-J-1Y-2m-1Y-4M-0Y	R	Mexico	93.0	141.9	4.6	2.4	79.1	3187.8	7.4	25.2	4.1
92	(7C/LR 64-Inia x Inia-Bb)Tob-8156 = Bobolink"S" CM 5349-A-6M-3Y-1M-2Y-0M	R	Mexico	98.0	146.6	4.7	2.4	87.1	3094.0	7.0	15.9	8.4
93	(No66-Bb/Cno x Nad63-Chr"S")7C = Vanern"S" CM-5375-F-1Y-1M-1Y-0M	B	Mexico	101.5	148.5	4.9	1.2	80.2	2842.1	15.3	5.9	8.3
94	Ron-Cha#2 x Bb-Nor67 CM 5484-F-5Y-4M-4Y-4M-1Y-0M	B♠	Mexico	99.3	148.2	4.2	3.2	83.6	2925.3	1.7	6.6	7.4
95	Ron-Cha#2 x Bb-Nor67 CM 5484-F-5Y-4M-2Y-1M-0Y	B	Mexico	94.6	144.7	4.9	3.2	80.8	2988.6	6.5	18.2	7.0
96	Ron-Cha#2 x Bb-Nor67 CM 5484-F-5Y-4M-1Y-1M-1Y-0M	B	Mexico	95.7	145.4	6.0	4.0	83.2	3054.9	2.8	9.9	3.5
97	Ron-Cha#2 x Bb-Nor67 CM 5484-F-4Y-4M-4Y-1M-1Y-0M	B	Mexico	95.8	144.7	4.5	3.0	82.2	2759.1	6.9	12.8	4.8
98	(Wal/CC-8155 x Cno)7C = Mesabi"S" CM 5513-D-1Y-1M-5Y-1M-1Y-0M	B	Mexico	95.7	147.2	3.7	2.6	78.7	2913.0	14.6	16.2	11.4
99	Tob"S"-Npo x CC-Inia/Cha = Bluetit"S" CM 5541-C-5Y-1M-1Y-4M-0Y	RS	Mexico	92.2	142.5	3.6	4.4	76.3	2550.7	15.0	13.3	14.4
100	Siete Cerros			95.7	143.7	5.2	4.8	79.6	3008.0	14.9	45.3	29.1
101	Bluetit"S"=Tob"S"-Npo x CC-Inia/Cha CM 5541-C-5Y-4M-3Y-3M-0Y	RS	Mexico	92.6	142.3	5.1	3.6	75.0	2403.3	7.8	8.2	16.8
102	Fury x Tob"S"-Npo/Tob^2-8156 CM 5740-D-1Y-1M-1Y-2M-0Y	B	Mexico	96.2	144.8	5.1	2.6	79.0	2929.9	7.2	5.4	2.3
103	Pato(R)-Cal/7C x Bb-Cno CM 5746-G-3Y-6M-1Y-1M-1Y-0M	R	Mexico	96.4	144.4	5.2	3.0	76.5	2825.3	3.6	1.2	5.2
104	Pato(R)-Cal/7C x Bb-Cno CM 5746-G-3Y-6M-1Y-5M-2Y-0M	R	Mexico	99.3	145.0	5.1	4.0	76.9	2823.1	5.8	1.8	3.2
105	Cno^2-Chr x Tob-8156/Cno-Inia x Bb CM 5811-B-1Y-1M-1Y-2M-1Y-0M	B	Mexico	101.2	150.6	3.9	1.8	79.7	2850.0	18.9	7.3	0.2
106	Bj67-Cal x Tob-8156(R)/7C x Bb-Cno CM 5813-M-2Y-1M-2Y-1M-0Y	R	Mexico	92.4	142.8	4.6	3.4	71.1	2460.9	3.3	4.4	16.0
107	Bj67-Cal x Tob-8156(R)/7C x Bb-Cno CM 5813-M-2Y-1M-2Y-4M-1Y-0M	R	Mexico	92.7	142.4	4.4	1.8	69.4	2518.3	2.6	4.9	16.4
108	/(Pi62xT.T-Son64/Cno67)^{2}Pi62/Cno^2-Chr x Bb CM 5856-1Y-2M-3Y-3M-0Y	B	Mexico	93.9	142.1	6.0	2.9	74.9	2797.8	2.2	12.3	19.0
109	Brochis"S" CM 5872-B-8Y-1M-2Y-4M-0Y	R	Mexico	96.7	145.3	4.7	4.0	83.0	2815.5	3.3	6.7	1.2
110	Brochis"S" CM 5872-C-1Y-1M-3Y-0M	B	Mexico	96.1	145.2	4.7	2.8	80.5	2613.4	1.2	10.9	0.8

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Leaf rust CI	Stripe rust CI
111	Tob-Cno"S"/Soty-CC x Az67 CM 6430-1M-2Y-2M-2Y-0M	R	Mexico	92.1	143.3	4.4	2.2	77.6	2536.0	9.9	20.3	4.4
112	Cno-7C x CC-Tob/Yr"S" =Orizaba"S"-Yr"S" CM 6540-14M-2Y-3M-1Y-0M	R	Mexico	93.0	144.0	5.7	3.0	83.1	2645.0	18.6	10.0	4.0
113	Az67-Cdl CM 7085-37M-2Y-3M-1Y-0M	R	Mexico	95.8	144.9	5.2	3.4	82.6	2879.1	3.5	14.0	5.2
114	Az67-Cdl CM 7085-37M-3Y-10M-1Y-0M	R*	Mexico	98.3	146.6	4.2	3.2	89.6	3020.3	4.0	2.4	12.5
115	Az67-Cdl CM 7085-37M-4Y-3M-1Y-1M-0Y	R	Mexico	101.6	149.0	2.7	2.4	87.3	2812.6	2.4	9.0	1.1
116	Pato (B)-Yr"S" CM 7437-5M-1Y-2M-2Y-0M	R	Mexico	92.7	143.9	4.1	4.4	84.7	2707.4	23.8	8.2	3.4
117	Pato (B)-Yr"S" CM 7437-5M-1Y-4M-3Y-0M	R	Mexico	94.6	144.6	4.2	3.0	83.4	2691.7	24.8	11.0	7.2
118	Bb-Cal x Pj62 CM 7525-33M-5Y-3M-1Y-0M	R	Mexico	96.6	145.2	4.4	1.4	85.0	2780.6	18.1	3.7	10.5
119	Cno-7C x Bb-Inia CM 7551-30M-2Y-500M-501Y-2B-0Y	R*	Mexico	95.0	142.8	4.4	1.6	81.4	2847.8	12.1	5.7	17.8
120	Tanori 71			90.5	139.9	5.2	2.6	75.2	2587.3	6.3	13.3	24.1
121	Wren x Cno"S"-Inia"S" CM 7585-1M-1Y-1M-1Y-0M	R	Mexico	98.7	146.5	5.9	2.8	85.7	2947.4	6.7	12.4	2.1
122	Wren x Cno"S"-Inia"S" CM 7585-1M-1Y-2M-1Y-1M-0Y	R	Mexico	98.4	146.7	6.2	4.0	87.5	2998.0	7.3	10.5	3.0
123	Wren x Cno"S"-Inia"S" CM 7585-1M-1Y-4M-5Y-1M-0Y	R	Mexico	98.3	146.7	6.2	4.0	87.3	3048.9	6.1	9.5	2.5
124	Wren x Cno"S"-Inia"S" CM 7585-1M-1Y-4M-7Y-1M-0Y	R	Mexico	99.4	147.3	5.6	2.8	87.6	3133.7	5.0	9.5	2.3
125	Cno"S"-Gallo x Bb-Inia =Naya74"S"-Torim73"S" CM 7594-1M-4Y-1M-2Y-0M	+B	Mexico	96.0	146.3	4.9	2.4	85.7	2549.6	2.2	2.3	10.8
126	Pichihuila"S" CM 7652-16Y-501M-0Y	B	Mexico	93.6	144.1	5.7	3.4	86.4	2793.9	17.2	15.6	6.6
127	Pichihuila"S" CM 7652-17Y-24M-1Y-0M	B	Mexico	95.4	144.4	4.4	1.4	85.0	2636.4	2.0	2.6	4.2
128	Pichihuila"S" CM 7652-26M-3Y-0M	B*	Mexico	92.2	143.0	5.4	3.8	84.0	2756.1	11.6	16.0	1.4
129	Pichihuila"S" CM 7652-35M-4Y-5M-2Y-1M-0Y	B	Mexico	91.7	143.1	4.6	1.6	82.2	2528.0	2.5	8.0	12.0
130	Pichihuila"S" CM 7652-35M-5Y-3M-1Y-0M	B*	Mexico	90.9	143.0	4.1	3.2	83.1	2457.7	11.5	8.0	10.3
131	Pichihuila"S" CM 7652-35M-1Y-1M-0Y	BPB	Mexico	91.8	142.9	4.7	2.8	79.7	2272.1	7.5	12.5	12.5
132	Mpo-Tob"S" x 8156/Kal-Bb =Carthage"S" x Kal-Bb CM 7806-15M-2Y-2M-1Y-0M	B	Mexico	92.7	143.0	4.5	2.6	80.1	2748.3	5.4	3.8	2.2
133	B.Man-7C x Cdl CM 8186-H-1M-1Y-3M-3Y-0M	B	Mexico	101.9	149.3	4.1	2.6	81.0	2809.7	12.1	13.9	22.8
134	Tito"S" CM 8212-D-4M-5Y-4M-9Y-0M	B	Mexico	103.8	149.9	4.6	1.0	88.1	2710.5	1.4	10.8	16.5
135	Tito"S" CM 8212-D-4M-5Y-4M-500Y-500M-0Y	B	Mexico	103.2	149.5	4.4	1.0	88.3	2690.6	1.2	5.0	13.2
136	Cno-Son x Bb-Inia/Tob x CC-Pato CM 8220-A-1M-1Y-4M-2Y-1M-0Y	B	Mexico	97.6	143.9	5.0	1.4	63.3	2912.8	3.9	4.0	3.9
137	Cno-Son x Bb-Inia/Tob x CC-Pato CM 8220-B-6M-1Y-10M-3Y-1M-0Y	B	Mexico	101.5	149.6	4.1	1.4	82.8	2593.8	2.0	5.3	3.9
138	CC-Inia x Bb(18M)/Cno"S"-7C CM 8252-G-1M-1Y-5M-5Y-1M-0Y	R	Mexico	98.5	146.0	5.9	4.2	82.2	3183.1	12.0	7.6	20.1
139	Moncho"S" CM 8288-A-3M-1Y-5M-0Y	B	Mexico	98.5	146.0	5.9	4.2	82.2	3183.1	12.0	7.6	20.1

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Leaf rust CI	Stripe rust CI
140	Jupateco 73	R	Mexico	92.0	141.8	5.1	3.4	79.7	2839.9	20.0	11.0	26.1
141	Moncho"S" CM 8288-A-3M-1Y-13M-0Y	R	Mexico	99.8	148.1	4.0	2.4	87.7	3114.4	15.3	4.2	3.3
142	Moncho"S" CM 8288-A-3M-3Y-4M-1Y-1M-0Y	BPB	Mexico	98.2	146.3	4.5	2.2	89.3	3048.3	12.4	7.7	4.7
143	Moncho"S" CM 8288-A-3M-3Y-10M-1Y-1M-0Y	R	Mexico	99.3	148.1	4.1	2.2	87.4	2985.0	10.7	2.7	1.7
144	Moncho"S" CM 8288-A-3M-4Y-5M-2Y-0M	R	Mexico	99.0	147.6	5.1	3.0	89.0	3049.7	9.0	2.4	0.5
145	Moncho"S" CM 8288-A-3M-5Y-4M-0Y	B	Mexico	98.9	147.1	4.2	1.8	85.0	2934.4	10.7	4.1	8.7
146	Moncho"S" CM 8288-A-3M-5Y-8M-1Y-1M-0Y	B	Mexico	99.9	148.1	4.5	2.6	87.5	3198.2	12.4	5.6	14.7
147	Moncho"S" CM 8288-A-3M-6Y-5M-1Y-1M-0Y	B	Mexico	97.7	146.9	4.5	1.4	85.0	3496.9	12.4	1.9	1.3
148	Moncho"S" CM 8288-A-3M-6Y-5M-1Y-0M	B	Mexico	97.1	146.9	4.7	2.2	84.8	3407.2	13.2	3.8	0.1
149	Moncho"S" CM 8288-A-3M-6Y-5M-2Y-1M-0Y	B	Mexico	97.6	147.1	3.6	2.2	84.7	3189.2	9.7	1.9	0.6
150	Moncho"S" CM 8288-A-3M-6Y-1M-1Y-1M-0Y	R	Mexico	96.2	146.9	3.7	1.4	86.9	3441.9	10.5	2.8	0.7
151	Moncho"S" CM 8288-A-3M-6Y-5M-3Y-0M	B	Mexico	97.7	147.2	3.5	1.2	83.4	3316.9	11.0	1.5	2.1
152	Moncho"S" CM 8288-A-3M-7Y-0M	B	Mexico	97.8	147.2	4.4	2.2	89.4	3585.2	16.7	3.9	16.1
153	Emu"S" CM 8327-C-9M-1Y-1M-1Y-0M	R	Mexico	96.7	143.3	6.1	2.6	81.8	3068.1	3.2	5.3	0.9
154	Emu"S" CM 8327-C-9M-1Y-5M-1Y-0M	R	Mexico	97.0	144.1	5.1	2.2	81.0	3226-8	3.2	4.3	1.5
155	Emu"S" CM 8327-C-9M-4Y-3M-0Y	R	Mexico	96.4	143.5	5.4	2.0	78.7	3170.3	2.7	5.8	1.7
156	Emu"S" CM 8327-C-9M-2Y-6M-2Y-0M	R*	Mexico	96.0	144.4	6.2	2.8	80.4	3318.6	3.7	10.4	2.6
157	Emu"S" CM 8327-C-9M-1Y-1M-1Y-1M-0Y	R	Mexico	95.6	143.9	5.9	2.8	81.9	3168.4	3.5	3.7	2.6
158	Cno"S"-7C x Cno-Inia/Toh CM 8380-A-1Y-8M-1Y-0M	R	Mexico	97.2	145.7	5.0	2.6	84.9	2987.0	9.3	8.3	4.3
159	Pavon"S" CM 8399-D-4M-3Y-1M-0Y	B*	Mexico	98.3	147.8	4.2	2.6	83.1	3522.6	6.0	5.1	5.3
160	Siete Cerros	B	Mexico	95.2	140.6	6.0	2.2	81.5	3281.5	13.8	50.7	26.3
161	Pavon"S" CM 8399-D-4M-3Y-3M-0Y	B	Mexico	101.1	148.6	3.9	1.6	85.3	3498.8	9.9	6.2	7.1
162	Pavon"S" CM 8399-D-4M-3Y-0M	B*	Mexico	98.0	147.4	4.2	2.4	84.6	3657.9	2.9	3.2	5.3
163	Pavon"S" CM 8399-D-4M-4Y-1M-1Y-0M	B*	Mexico	98.4	147.3	4.7	2.6	88.2	3624.2	12.8	6.6	9.6
164	Pavon"S" CM 8399-D-4M-3Y-1M-1Y-0M	B	Mexico	97.0	145.8	4.4	2.6	83.4	3533.6	2.3	3.9	7.9
165	Pavon"S" =Pavon 76 CM 8399-D-4M-3Y-1M-1Y-1M-0Y	B*	Mexico	97.2	146.1	5.0	2.4	83.0	3307.2	2.7	3.6	4.1
166	Pavon"S" CM 8399-D-4M-2Y-2M-3Y-1M-0Y	B	Mexico	102.9	149.4	4.0	2.4	85.3	3212.5	11.5	4.4	5.2

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Leaf rust CI	Stripe rust CI
167	Pavon"S" CM 8399-D-4M-3Y-3M-1Y-0M	B	Mexico	102.2	149.3	4.2	3.4	84.4	3220.0	7.9	5.2	10.1
168	Pavon"S" CM 8399-D-4M-4Y-1M-1Y-1M-0Y	B	Mexico	98.0	147.0	4.1	2.8	87.2	3638.7	12.7	5.6	7.3
169	Pavon"S" CM 8399-D-4M-4Y-2M-2Y-0M	B	Mexico	95.0	143.7	4.5	2.8	83.9	3029.1	6.8	3.7	9.2
170	(Cno-7C x CC-Tob/7C)Cno-Chr x Flr-Mo66 CM 8607-R-1M-7Y-4M-2Y-0M	R	Mexico	98.3	146.8	3.9	3.6	82.7	2828.2	2.5	2.8	4.3
171	(Cno-7C x CC-Tob/7C)Cno-Chr x Flr-Mo66 CM 8607-R-1M-1Y-4M-1Y-0M	R	Mexico	97.6	146.2	4.0	2.0	81.9	2751.4	2.7	6.9	5.0
172	(We/LR64-Inia x Inia-Bb)7C x Tob-Cno"S" = Bolsena"S" CM 8625-G-1M-4Y-1M-0Y	B	Mexico	97.0	145.8	4.7	2.2	82.0	2828.0	1.9	6.0	6.3
173	Yr x Son-Genesee/Cno-Chr x Mo66-Era CM 8670-B-2Y-9M-1Y-1M-0Y	R	Mexico	96.5	145.2	4.7	1.6	82.1	3016.8	3.8	7.3	4.2
174	Huacamayo"S" CM 8671-B- 1M-1Y-1M-1Y-1M-0Y	R	Mexico	95.6	144.6	5.1	2.8	88.4	3419.9	5.8	0.4	2.6
175	Huacamayo"S" CM 8671-B-5M-1Y-2M-1Y-1M-0Y	R*	Mexico	98.2	145.5	5.2	1.8	88.2	3061.5	9.8	1.8	2.6
176	Huacamayo"S" CM 8671-B-5M-3Y-2M-4Y-0M	R	Mexico	96.5	144.8	5.6	2.2	83.7	3056.1	11.8	2.8	3.3
177	Huacamayo"S" CM 8671-B-5M-3Y-2M-4Y-1M-0Y	R	Mexico	96.2	144.5	5.6	3.8	82.0	2869.4	12.8	2.3	7.6
178	Osprey"S"=Npo-Cdl x Sam-Tordo CM 8701-A-1M-2Y-1M-0Y	B	Mexico	94.8	144.6	6.5	3.8	80.3	2919.7	15.0	19.9	17.3
179	Osprey"S"=Npo-Cdl x Sam-Tordo CM 8701-A-1M-2Y-1M-3Y-0M		Mexico	95.2	145.7	5.6	2.8	77.3	2914.9	58.7	30.0	12.6
180	Jupateco 73			91.8	140.6	5.9	3.4	80.3	2873.1	12.1	11.9	26.9
181	Lee-RL2564 x Fr/IAS 54 Br-8706-13M-1Y-5M-0Y	R	Mexico	106.8	152.4	3.4	2.0	91.8	3219.1	12.8	10.3	4.2
182	Npo-Cdl x Zbz CM 8935-D-5M-3 Y-3M-2Y-0M	R	Mexico	96.9	145.9	5.1	2.8	72.4	2628.1	2.9	14.3	5.9
183	/(SD6485-8156/Chr x Son-Kl.Rend)Bb-Cal/Zbz= Chiroca"S" CM 8963-A-1M-1Y-1M-1Y-0M	B	Mexico	96.3	146.4	5.6	2.2	87.1	2997.0	6.6	1.6	9.3
184	/(SD6485-8156/Chr x Son-Kl.Rend)Bb-Cal/Zbz= Chiroca"S" CM 8963-A-1M-1Y-1M-4Y-0M	B	Mexico	95.4	145.8	5.0	2.2	86.5	3028.8	3.6	1.9	7.3
185	/(SD6485-8156/Chr x Son-Kl.Rend)Bb-Cal/Zbz= Chiroca"S" CM 8963-A-1M-1Y-1M-3Y-0M	B	Mexico	95.7	145.8	4.9	2.4	86.9	3099.9	9.1	2.5	7.3
186	/(SD6485-8156/Chr x Son-Kl.Rend)Bb-Cal/Zbz= Chiroca"S" CM 8963-A-1M-1Y-1M-5Y-6M-0Y	B	Mexico	95.2	145.6	6.1	3.8	86.2	3097.3	11.1	1.7	7.0
187	/(SD6485-8156/Chr x Son-Kl.Rend)Bb-Cal/Zbz= Chiroca"S" CM 8963-A-1M-1Y-1M-5Y-9M-0Y	B	Mexico	95.8	145.8	5.9	2.4	86.9	3016.7	11.5	2.3	8.5
188	/(SD6485-8156/Chr x Son-Kl.Rend)Bb-Cal/Zbz= Chiroca"S" CM 8963-A-1M-2Y-7M-1Y-0M	B	Mexico	99.4	147.9	4.1	2.0	89.0	3156.5	13.2	24.1	6.7
189	Bb-Kal CM 9160-11M-4Y-1M-0Y	B	Mexico	102.8	147.8	4.6	2.8	82.3	2743.7	13.2	3.6	4.3
190	Bb-Kal CM 9160-11M-5Y-1M-1Y-0M	B	Mexico	104.4	152.0	4.1	2.2	83.3	2751.5	7.8	3.9	5.4
191	Bb-Kal CM 9160-11M-5Y-1M-2Y-0M	B	Mexico	105.6	152.5	4.1	2.6	83.3	2593.7	7.8	3.5	5.1
192	Bb-Kal CM 9160-11M-5Y-5M-2Y-0M	B	Mexico	104.9	151.9	5.4	2.6	82.7	2888.3	8.6	2.5	3.5
193	Bb-Kal CM 9160-11M-5Y-6M-0Y	B	Mexico	104.7	152.4	4.6	2.8	83.9	2867.1	8.4	3.3	3.0
194	Tob 66-Cha CM 10583-22Y-9M-1Y-1M-0Y	R	Mexico	95.5	143.2	5.4	2.0	81.0	2744.1	1.5	3.0	2.4
195	(Son64 x Sk$_E$-An$_E$/Hy$_E$-An$_E$)Tob-Cfn x Bb CM 10632-1Y-1M-1Y-1M-0Y	RS	Mexico	99.7	146.9	4.0	2.0	86.3	2813.4	3.6	25.5	6.2

Tabultation of maturity. **Table 2 continued.**

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Leaf rust CI	Stripe rust CI
196	Solsort"S"=Cgñ/Pato x Bb-Cno CM-10712-1Y-1M-6Y-1M-0Y	B	Mexico	100.1	148.1	4.1	1.0	82.2	2926.6	31 3	9.7	8.9
197	Solsort"S"=Cgñ/Pato x Bb-Cno CM 10712-1Y-1M-7Y -2M-0Y	B	Mexico	101.1	148.9	3.7	2.6	87.5	2900.5	34.5	7.4	5.1
198	Kl.Atl/Tob-Cfn x Eb CM 11029-84Y-7M-1Y-2M-0Y	B	Mexico	97.4	145.4	4.9	2.0	82.1	2771.1	3.4	4.4	3.0
199	(Tob"S"-Inia"S"/Son64 x Skp^6-An)Bb4A CM 11177-21Y-2M-1Y-1M-0Y	BS	Mexico	94.3	143.7	5.2	2.4	79.6	2724.3	4.2	2.4	11.4
200	Tanori 71			88.0	138.6	5.6	2.8	74.7	2533.0	8.5	10.4	19.9
201	/(21931/Ch53-An x Gb56)An64/Cdl CM 11243-28Y-4M-3Y-0M	R	Mexico	98.1	146.7	5.4	2.8	73.0	2139.0	0.9	1.6	0.7
202	(Cno-7C x CC-Tob/Cno"S"-No66)Kal CM 11377-A-1Y-6M-3Y-0M	R	Mexico	98.1	145.5	5.0	2.0	74.8	2712.9	6.9	16.3	3.4
203	Cno-7C x Nor67/Cal-Cno CM 11552-G-3Y-2M-1Y-7M-0Y	R	Mexico	98.3	146.3	4.0	1.4	81.0	2840.8	13.2	6.4	6.1
204	Ska-Cal/CC x Cno-Sno64 CM 11667- H -1Y-2M-2Y-1M-0Y	R	Mexico	94.7	145.9	4.5	2.0	84.2	2628.2	7.8	7.4	2.2
205	Alondra"S" CM 11683-A-1Y-1M-1Y-7M-0Y	R	Mexico	100.4	149.3	4.6	2.6	87.9	2941.4	3.5	7.6	0.7
206	Alondra"S" CM 11683-A-1Y-1M-2Y-3M-0Y	R	Mexico	98.7	144.3	3.9	1.2	80.8	2995.4	3.3	9.1	1.8
207	Alondra"S" CM 11683-A-1Y-1M-3Y-2M-0Y	R	Mexico	100.6	147.5	4.4	1.4	84.2	3026.2	2.5	8.8	4.5
208	Alondra"S" CM 11683-A-1Y-1M-1Y-8M-0Y	R	Mexico	98.0	146.7	5.0	1.4	86.0	3287.8	4.8	7.9	4.4
209	Alondra"S" CM 11683-A-1Y-1M-3Y-0M	R	Mexico	99.4	147.3	4.6	2.4	82.6	2954.7	3.5	9.4	2.9
210	Cno"S"-Gallo/Kal-Bb x 7C-Nad 63 CM 11771-G-3Y-6M-1Y-1M-0Y	B*	Mexico	94.8	145.9	6.1	3.2	82.5	2707.9	6.4	15.2	5.8
211	Alondra"S" CM 11683-A-1Y-1M-3Y-11M-0Y	R	Mexico	99.6	147.0	5.0	1.0	84.0	2990.7	3.0	12.3	5.7
212	Cno"S"-Gallo/Kal-Bb x 7C-Nad63 CM 11771-G-3Y-8M-2Y-2M-0Y	B	Mexico	96.7	146.6	4.5	1.8	84.5	2738.5	2.8	3.0	4.8
213	Bb-Cno x Inia-Soty(Kal-Bb/Inia-Cal x Inia-CC) CM 11780-J-1Y-2M-1Y-2M-0Y	R	Mexico	99.2	147.3	3.7	1.6	84.8	2333.3	3.3	1.0	1.6
214	Lfn x Inia-Bb/Cno"S"-No66 CM 11808-A-3M-1Y-1M-0Y	B	Mexico	94.6	143.8	4.9	1.8	81.8	2530.0	8.5	6.7	3.4
215	(Cno-No66/Son64-Kl.Rend x Bb)Bb^2-Np876 CM 11856-A-1Y-2M-1Y-0M	+R	Mexico	102.5	149.7	3.5	2.6	88.9	2567.8	4.7	7.7	3.7
216	Cno"S"-Gallo x Nar59-On/Nad63-LR64 x Bb CM 11870-B-3Y-1M-1Y-12M-0Y	B	Mexico	100.4	146.5	3.9	2.6	91.1	2710.1	4.6	8.4	9.9
217	Cno"S"-Gallo x Nar59-On/Nad63-LR64 x Bb CM 11870-B-3Y-1M-2Y-8M-0Y	B	Mexico	98.4	146.3	4.9	3.8	88.6	2406.8	6.0	6.0	8.3
218	Kal-SD648.5 x Bb-Nor67 CM 11874-G-13M-5Y-2M-0Y	R	Mexico	103.0	149.0	4.6	1.4	89.7	2814.3	11.1	36.5	12.2
219	Cno"S"-Gallo x Bb4A/K4496 CM 11909-A-1Y-2M-0Y	B	Mexico	97.4	145.5	4.6	2.8	79.7	2290.3	3.3	9.3	10.0
220	Siete Cerros	B	Mexico	94.9	140.7	5.0	3.2	80.1	3215.9	15.5	44.2	23.4
221	Cno"S"-Gallo x Bb4A/K4496 CM 11909-F-1Y-4M-0Y	B	Mexico	89.6	139.0	5.6	2.6	79.5	2350.0	10.7	10.8	15.4
222	Bb-Cno x HD832/PI 331253 CM 11913- H -1Y-4M-1Y-0M	R	Mexico	93.2	143.0	5.5	5.0	80.2	2555.0	1.8	8.2	6.0
223	Cno-Inia"S"^{2} x Tor(Cno-7C x CC-Tob/Yr"S") CM 12229-K-16Y-1M-1Y-2M-0Y	B	Mexico	96.6	145.2	5.2	2.4	88.5	3057.1	2.3	5.6	18.6

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	plant height cm	yield kg/ha	Stem rust CI	Stem rust CI	Stripe rust CI
224	Pj62 x Cno-7C/Cno-No66 x Vcm CM 12279-R-2Y-1M-3Y-1M-0Y	R	Mexico	101.9	150.6	5.5	1.6	84.3	2890.5	4.5	4.4	2.5
225	(Cno-No66/Son64-Kl.Rend x Bb)Cno"S"-Gallo x Inia-Jaral CM 12330-K-2Y-1M-1Y-3M-0Y	R	Mexico	98.1	146.6	4.2	1.8	84.9	2632.7	3.9	5.7	9.3
226	(Cno-No66/Son64-Kl.Rend x Bb)Cno"S"-Gallo x Inia-Jaral CM 12330-K-2Y-1M-2Y-0M	R	Mexico	98.6	148.9	4.9	2.0	84.7	2677.5	4.9	2.6	5.6
227	(Cno-No66/Son64-Kl.Rend x Bb)Cno"S"-Gallo x Inia-Jaral CM 12330-K-2Y-1M-2Y-1M-0Y	R	Mexico	98.6	149.6	4.5	2.0	84.3	2556.9	4.3	1.4	7.3
228	(Cno-No66/Son64-Io.Rend x Bb)Cno"S"-Gallo x Inia-Jaral CM 12330-K-2Y-5M-2Y-1M-0Y	R	Mexico	99.8	149.7	3.5	1.4	88.7	2608.9	5.9	3.2	7.7
229	IAS-Pato/[(Cno-Son 64/NP880-Pj62 x Cal)We] CM 12373-L-3Y-1M-0Y	R	Mexico	99.3	148.1	4.4	2.6	81.9	2383.4	22.0	15.9	2.4
230	Cno-No66 x Kal-Bb /Bj"S"-On^2. x Sx CM 12421-F-1Y-1M-5Y-4M-0Y	B	Mexico	97.2	146.5	4.6	3.6	86.4	2793.2	10.8	11.6	1.5
231	/[(Tzpp-Y54$_E$ x Son64/On)Cj"S"]CC x Eb-Nor67 CM 12478-K-3Y-11M-1Y-0M	R	Mexico	93.1	144.5	5.7	2.8	84.5	2535.0	7.3	16.8	5.1
232	B.Aust-Nad63 x Kal-Bb/Cno"S"-7C x Eb-Cal CM 12571-0-1Y-2M-0Y	R*	Mexico	90.6	140.6	4.5	2.4	71.3	2323.7	3.4	7.2	13.4
233	Tob x Kal-Bb CM 14868-16M-1Y-3M-0Y	B	Mexico	95.5	142.9	4.7	1.8	85.1	2841.8	2.6	7.9	11.6
234	Ktz M12-Ti71 CM 14952-22M-3Y-0M	B	Mexico	95.2	143.0	4.6	1.6	89.2	2980.8	7.7	5.8	3.8
235	Ktz M12-Ti71 CM 14952-29M-1Y-11M-0Y	B	Mexico	94.4	142.2	4.0	2.8	86.2	2529.5	2.4	4.6	6.2
236	Ktz M12-Ti71 CM 14952-51M-1Y-1M-0Y	R	Mexico	94.9	142.6	4.1	2.4	88.8	2862.6	3.6	4.5	2.8
237	Ktz M12-Ti71 CM 14952-66M-5Y-2M-0Y	R	Mexico	93.4	141.0	4.4	2.2	81.4	2601.8	1.6	6.5	2.8
238	Ktz M12-Ti71 CM 14952-69M-5Y-1M-0Y	R	Mexico	98.2	144.3	4.4	1.8	80.7	3013.2	5.7	1.9	8.8
239	Ji/CC x K58N-II44.29 CM 14992-1M-1Y-1M-0Y	R	Mexico	97.1	144.0	4.6	3.0	85.0	2948.5	14.5	5.4	6.4
240	Jupateco 73			92.2	140.8	5.4	2.2	79.7	3007.8	12.3	9.4	21.5
241	Cj71-Cpr CM 15070-1M-1Y-1M-0Y	-R	Mexico	93.2	142.8	5.4	1.6	76.2	2985.5	4.1	2.2	2.3
242	Cgñ x Kal-Bb CM 15133-1M-1Y-1M-0Y	B	Mexico	92.8	142.0	4.2	3.4	79.5	2659.4	4.7	4.8	1.8
243	Cgñ x Kal-Bb CM 15133-1M-3Y-2M-0Y	B	Mexico	94.5	143.8	4.4	1.6	85.4	2746.6	4.2	4.4	1.7
244	Cgñ x Kal-Bb CM 15133-1M-3Y-6M-0Y	B	Mexico	94.8	143.4	4.6	2.0	84.6	2760.1	3.7	4.4	1.9
245	(Bb-Gallo/Cno-Son64 x Bb)Pato (B) =Pollo"S"-Pato(B) CM 15818-19M-2Y-3M-0Y	B	Mexico	96.3	145.8	3.9	2.8	81.8	2603.8	9.5	7.2	0.6
246	(Bb-Gallo/Cno-Son64 x Bb)Pato (B) =Pollo"S"-Pato(B) CM 15818-13M-1Y-1M-0Y	B	Mexico	96.4	145.5	5.0	1.6	81.8	2734.2	14.4	11.3	0.0
247	(Bb-Gallo/Cno-Son64 x Bb)Pato (B) =Pollo"S"-Pato(B) CM 15818-13M-1Y-13M-0Y	B	Mexico	96.5	144.8	4.4	1.8	81.9	2792.3	12.4	11.2	0.5
248	Inia"S"-Npo63 x Cal^2/PV18A-Cno67 =Woodpecker"S" CM 15856-6M-5Y-3M-0Y	-R	Mexico	99.5	147.3	4.1	1.2	75.9	2596.3	9.1	1.4	0.4
249	An$_E$-My54 x Ti71 CM 15928-3M-1Y-7M-0Y	BS	Mexico	99.1	145.6	4.0	1.6	81.6	3013.3	7.0	3.4	3.2
250	II 12300-Tob x Cno"S"/Sx CM 16045-13M-1Y-0M	R	Mexico	101.3	143.6	4.1	2.0	76.5	2507.0	28.4	7.5	7.0
251	Pato-On x Cno"S"-Gallo =Pato-On x Maya 74"S" CM 16216-3M-1Y-1M-0Y	R	Mexico	92.1	145.7	4.9	2.4	85.9	2772.7	4.7	4.5	5.3

Tabulation of maturity. Table 2 continued.

Entry	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Stem rust CI	Stripe rust CI
252	(Fr316/McM-Kt x Y50)Meng-8156 CM 16227-1M-1Y-1M-0Y	BS	Mexico	91.8	144.1	4.1	3.0	61.7	2577.7	4.5	15.4	5.5
253	(Fr316/McM-Kt x Y50)Meng-8156 CM 16227-1M-1Y-3M-0Y	BS	Mexico	91.3	144.1	4.6	3.2	67.6	2519.9	3.0	17.2	4.8
254	IAS-WS1812(Cha/Tob-Cfn x Bb) CM 16634-D-1M-1Y-10M-0Y	R	Mexico	98.8	152.2	4.0	1.6	87.8	2823.0	22.5	9.7	1.8
255	ZZ-Dzi x Pato-Yr"S" CM 16679-E-4M-2Y-3M-0Y	BS	Mexico	95.0	145.4	4.4	1.6	68.4	2509.9	2.4	13.3	4.3
256	Dzi-Tob66(Nad-LR64 x Bb/Bb-Nor67) CM 16705-A-1M-1Y-6M-0Y	B	Mexico	100.4	149.7	4.5	2.4	84.4	2827.0	4.7	12.2	1.0
257	Kl.Atl x Inia-Bb(NP876-Pj62 x Cal/Bb) =Cowbird"S" CM 16716-I-5M-4Y-1M-0Y	R*	Mexico	95.6	145.0	5.0	1.4	82.5	2989.6	5.6	5.5	5.4
258	Kl.Atl x Inia-Bb(Np876-Pj62 x Cal/Bb) =Cowbird"S" CM 16716-M-3M-2Y-1M-0Y	R	Mexico	98.1	147.3	4.8	2.2	77.5	3039.3	6.1	9.7	17.2
259	Kl.Atl x Inia-Bb(NP876-Pj62 x Cal/Bb) =Cowbird"S" CM 16716-M-3M-2Y-3Y-0M	R	Mexico	97.8	146.6	4.1	1.8	83.9	3041.7	7.2	7.3	4.7
260	Tancri 71			88.0	136.8	6.2	1.4	75.2	2767.1	9.7	13.0	15.9
261	Kl.Atl x Inia-Bb(NP876-Pj62 x Cal/Bb) =Cowbird"S" CM 16716-N-1M-1Y-1M-0Y	R	Mexico	93.0	142.9	4.6	1.8	81.3	2576.7	3.0	8.7	7.1
262	Pato-Tob66 CM 16860-23M-1Y-11M-0Y	R	Mexico	94.2	143.4	3.9	2.4	83.3	2758.1	4.7	15.4	2.0
263	Pato-Tob66 CM 16860-23M-1Y-12M-0Y	R	Mexico	92.5	140.7	4.4	1.4	81.2	2789.0	4.6	16.0	1.8
264	Az67-Nr70 CM 18207-3M-2Y-1M-0Y	B	Mexico	92.0	139.5	4.6	1.8	79.0	2553.0	4.8	5.2	7.6
265	(We/LR 64-Inia x Inia-Bb)7C x Tob-Cno"S" =Bolsena"S" CM 8625-E-1M-4Y-1M-0Y	B*	Mexico	96.9	144.7	5.1	3.0	79.8	2543.9	3.6	8.3	5.4
266	We x Cno"S"-Gallo/Sx =We-Maya74"S" x Sx CM 8953-E-3M-2Y-1M-0Y	R	Mexico	92.7	143.0	4.2	2.6	81.8	2718.5	5.0	14.3	6.6
267	We x Cno"S"-No66/Zbz =Flicker"S" CM 8954-B-7 M-1Y-1M-1Y-0M	BS	Mexico	99.1	146.6	4.5	1.6	77.6	2917.5	2.2	13.4	15.3
268	(Tob-B.Man x Bb/Cdl)Sx =Nipigon"S" CM 8972-F-9M-1Y-1M-1Y-0M	R	Mexico	98.3	147.2	4.2	1.8	84.0	2957.3	9.8	6.0	17.9
269	Cno-7C x CC-Tob/S.D.648.5-8156 =Como"S" CM 4756-12Y-1M-1Y-1M-0Y	R	Mexico	97.3	143.7	5.4	1.8	81.3	2936.9	3.9	11.2	7.3
270	Brochis"S" CM 5872-C-1Y-5M-2Y-2M-0Y	B	Mexico	97.9	144.7	4.6	2.2	79.8	2626.0	0.8	4.7	0.5
271	CC-Kal(Az67xNad63-LR64/Bb) CM 11663-E-1Y-1M-1 Y-0M	B*	Mexico	100.6	147.3	4.7	2.4	83.6	2745.9	13.5	6.8	10.3
272	(Cno-7C xCC-Tob/Cno"S"-No66)Kal=Orizaba"S"xCno"S"-No66/Kal CM 11377-A-1Y-8M-4Y-0M	R	Mexico	96.9	143.9	5.1	1.8	81.4	2647.2	6.5	26.3	7.2
273	Npo-Cdl x Zbz CM 8935-D-5M-3Y-3M-0Y	R	Mexico	96.2	144.2	5.1	2.4	77.9	2805.2	5.2	14.3	3.7
274	Tob-8156 x CC-Inia CM 1208-1Y-4M-3Y-2M-0Y	B	Mexico	93.1	143.1	5.1	2.8	77.5	2490.9	5.7	3.1	8.5
275	Hork= Hopps-Ron x Kal CM 8874-K-1M-1Y-0M-(1-113Y)	R	Mexico	98.2	145.4	4.4	2.2	80.7	2862.5	13.8	3.1	18.5
276	Hork= Hopps-Ron x Kal CM 8874-K-1M-1Y-0M (1-356Y)	R	Mexico	97.6	145.5	4.4	2.2	83.3	3013.0	12.8	3.3	19.4
277	Hork= Hopps-Ron x Kal CM 8874-K-1M-1Y-0M (1-105Y)	R	Mexico	96.8	143.3	5.1	2.4	82.1	3135.3	20.8	4.4	16.0
278	Hork=Hopps-Ron x Kal CM 8874-K-1M-1Y-1M-1Y-0M	R	Mexico	97.6	142.5	5.2	1.8	79.2	2659.6	24.6	5.1	16.7
279	Hork= Hopps-Ron x Kal CM 8874-K-1M-4Y-1M-1Y-0M	R	Mexico	102.6	149.3	5.2	2.8	85.6	2861.8	11.3	6.4	14.0

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Stem rust CI	Stripe rust CI
280	7 Cerros	R	Mexico	95.8	141.2	5.5	2.4	80.7	2809.2	15.3	46.4	26.6
281	Hork=Hopps-Ron x Kal CM 8874-K-1M-1Y-1M-2Y-0M	R	Mexico	98.2	145.1	5.6	2.2	78.1	2992.5	19.2	[illegible].1	14.6
282	Bb-Nor67 x Cno"S"-7C CM 1566-500M-500Y-500B-0Y	B	Mexico	97.1	143.6	5.0	4.0	78.2	2621.2	11.0	[illegible].2	0.8
283	(Fn-Th^3 x II 44.29-Th^2/Cofn^4)Sr CM 2116-2I-2A-1Y-1M-2 Y-0M	+R	Mexico	104.2	146.7	5.0	1.4	73.3	2401.7	7.8	18.5	7.3
284	(Fn-Th^3 x II 44.29-Th^2/Cofn^4)Sr CM 2116-2I-2A-1Y-1M-0Y	R	Mexico	101.2	149.7	4.9	2.4	72.7	2338.6	8.0	19.7	6.4
285	Fury x Cno"S"-No66 =Sajame"S" CM 4210-10Y-4M-8Y-2M-1Y-0M	B	Mexico	96.8	145.1	4.5	1.6	93.1	2964.6	5.6	24.4	0.1
286	Fury x Cno"S"-No66 =Sajame"S" CM 4210-10Y-4M-3Y-7M-2Y-0M	B	Mexico	95.2	143.9	5.2	2.2	85.3	2801.2	6.1	24.9	1.0
287	Fury x Cno"S"-No66 =Sajame"S" CM 4210-10Y-4M-8Y-2M-0Y	R*	Mexico	92.1	142.0	4.9	2.4	82.1	2646.5	5.3	26.1	1.5
288	Fury x Cno"S"-No66 =Sajame"S" CM 4210-10Y-500M-500Y-0M	B*	Mexico	92.4	142.0	5.1	2.0	79.5	2611.0	7.2	12.7	0.7
289	(No66-Bb/Cno x Nad63-Chr"S")7C =Vanern"S" CM 5375-F-1Y-1M-1Y-1M-0Y	B	Mexico	100.9	146.7	5.0	2.4	79.9	3005.6	14.9	5.6	4.2
290	Yob"S"-Npo x CC-Inia/Chanate =Bluetit"S" CM 5541-C-5Y-1M-1Y-4M-0Y	RS	Mexico	92.7	143.1	5.6	4.8	75.7	2642.8	16.3	9.2	14.2
291	Cal x Bb-Cno/7C CM 5345-D-4Y-3M-2Y-4M-0Y	R	Mexico	95.6	141.8	4.7	2.2	77.5	2851.8	1.5	9.1	5.4
292	(7C/LR 64-Inia x Inia-Bb)Yob-8156 =Bobolink"S" CM 5349-A-9Y-1M-2Y-500M-0Y	R	Mexico	93.0	142.1	4.5	1.4	79.2	2997.4	6.8	12.9	6.2
293	Ron-Cha x Bb-Nor67 CM 5484-F-1Y-1M-2Y-1M-0Y	B*	Mexico	95.8	143.7	4.7	2.2	82.9	2596.2	7.3	7.4	2.0
294	Cno-RR68 x Bb-Pak F4 6313 CM 5661-H-1Y-3M-1Y-1M-0Y	R	Mexico	94.9	142.6	4.6	3.8	83.6	2551.2	6.8	18.7	19.8
295	8156-Nad63 x Bb/Tob-8156 x Cno-Inia CM 5829-N-6Y-6M-3Y-6M-0Y	B*	Mexico	100.7	148.7	4.5	2.2	79.0	2270.7	3.7	3.7	5.1
296	Brochis"S" CM 5872-C-1Y-1M-3Y-0M	B	Mexico	97.1	145.6	4.1	2.0	81.0	2899.0	1.5	7.8	1.2
297	Brochis"S" CM 5872-B-8Y-1M-2Y-1M-0Y	R	Mexico	96.6	146.6	3.4	2.0	83.6	2953.0	2.8	6.2	2.4
298	Brochis"S" CM 5872-B-8Y-1M-2Y-4M-0Y	R	Mexico	97.6	146.7	3.5	2.4	84.5	2871.2	4.8	7.3	1.6
299	Brochis"S" CM 5872-C-1Y-5M-1Y-3M-0Y	B	Mexico	97.6	145.8	3.7	1.8	80.7	2540.4	1.3	6.9	0.7
300	Siete Cerros			95.6	141.3	4.2	1.2	78.9	2716.1	18.6	45.9	30.2
301	Ron-Cha CM 6552-16M-1Y-5M-3Y-0M	R	Mexico	95.6	145.4	4.7	1.6	77.8	2420.0	2.4	10.0	6.7
302	We x Cno "S"-Inia"S" CM 7565-1M-1Y-2M-1Y-0M	R	Mexico	98.4	145.6	5.1	2.2	88.3	2886.4	6.5	12.2	7.3
303	We x Cno "S"-Inia"S" CM 7585-1M-1Y-2M-3Y-0M	R	Mexico	98.3	146.3	5.2	2.2	88.8	3094.7	7.6	9.9	7.7
304	We x Cno "S"-Inia"S" CM 7585-1M-1Y-1M-1Y-0M	R	Mexico	98.7	146.4	5.6	3.0	88.3	2855.5	8.9	11.1	5.0
305	We x Cno "S"-Inia"S" CM 7585-1M-1Y-5M-7Y-0M	R	Mexico	98.1	144.0	5.7	2.6	82.2	2953.6	9.2	10.3	5.5
306	CC-Inia x Bb(18M)/Cno"S"-7C CM 8252-G-1M-1Y-1M-4Y-0M	B	Mexico	99.7	143.6	5.0	2.4	80.5	2808.4	13.4	13.8	20.2

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Stem rust CI	Stripe rust CI
307	We x Tob-Cno"S"/Cdl CM 8285-T-500M-503Y-0M-501M-0Y	R	Mexico	104.7	147.4	4.9	2.0	73.0	2485.7	11.8	4.8	17.0
308	(We/LR 64-Inia x Inia-Bb)7C x Tob-Cno"S" =Bolsena"S" CM 8625-G-1M-4Y-1M-1Y-3M-0Y	B	Mexico	97.6	145.6	4.6	2.4	80.2	2716.2	5.8	6.7	5.6
309	(We/Lib64-Inia x Inia-Bb)7C x Tob-Cno"S" =Bolsena"S" CM 8625-G-1M-4Y-1M-1Y-4M-0Y	B	Mexico	97.3	145.1	4.5	2.8	79.2	2526.8	1.6	7.0	4.0
310	(We/Lib64-Inia x Inia-Bb)7C x Tob-Cno"S" =Bolsena"S" CM 8625-G-1M-4Y-1M-1Y-2M-0Y	B	Mexico	97.3	145.4	4.1	2.4	81.7	2739.7	5.6	7.7	2.8
311	(Cno[2] x Son64-Kl.Rend/Ron)Sx CM 8922-H-1M-1Y-3M-1Y-0M	R	Mexico	100.9	148.3	4.4	2.2	76.2	2466.3	4.0	13.5	3.7
312	(Cno x Son64-Kl.Rend/Ron)Sx CM 8922-H-1M-1Y-3M-2Y-0M	R*	Mexico	102.2	149.2	4.1	1.6	75.8	2550.5	5.0	11.9	2.1
313	Npo-Cdl x Zbz CM 8935-D-5M-3Y-1M-1Y-0M	R*	Mexico	96.1	144.9	6.4	2.9	76.8	2955.9	12.5	6.2	3.0
314	Npo-Cdl x Zbz CM 8935-D-5M-3Y-1M-2Y-0M	R*	Mexico	95.0	145.0	6.5	3.8	79.2	2802.9	12.5	7.3	2.7
315	Npo-Cdl x Zbz CM 8935-D-5M-3Y-3M-1Y-0M	R*	Mexico	96.3	145.3	4.7	2.8	80.5	2553.5	11.7	6.8	4.4
316	Npo-Cdl x Zbz CM 8935-D-5M-3Y-1M-0Y	R*	Mexico	96.3	145.2	4.7	3.8	79.5	2588.3	14.6	7.4	3.4
317	Cno-7C x Cno-Inia/Sx CM 8943-F-1M-2Y-1M-1Y-0M	R	Mexico	100.6	143.7	4.2	4.0	84.3	2912.0	18.3	3.8	6.0
318	Cno-7C x Cno-Inia/Sx CM 8943-F-1M-2Y-1M-2Y-0M	R	Mexico	99.8	143.2	4.1	4.0	83.4	2798.6	19.6	3.6	12.2
319	Cno-7C x Cno-Inia/Sx CM 8943-F-1M-2Y-3M-2Y-1M-0Y	R	Mexico	96.5	138.9	4.7	4.0	79.9	2804.9	21.0	6.3	13.2
320	Siete Cerros			94.9	138.4	4.9	3.4	79.4	2716.3	15.5	39.9	20.5
321	We x Cno"S"-Gallo/Sx =We-Maya74"S" x Sx CM 8953-B-1M-1Y-2M-1Y-0M	R	Mexico	94.4	143.6	4.7	3.2	84.0	2521.1	10.3	14.1	6.3
322	We x Cno-No66/Zbz =Flicker"S" CM 8954-B-7M-1Y-1M-0Y	B	Mexico	99.9	146.7	4.6	2.6	79.5	2942.2	3.8	11.5	12.9
323	Hork=Hopps-Ron x Kal CM 8874-K-1M-3Y-1M-1Y-0M	R*	Mexico	100.8	146.8	3.9	2.4	83.3	2643.6	10.8	2.0	12.6
324	Bb-Kal CM 9160-11M-5Y-1M-2Y-0M	B	Mexico	104.4	152.6	3.7	1.8	82.4	2534.2	11.3	6.2	6.2
325	Bb-Kal CM-9160-11M-5Y-4M-1Y-0M	B	Mexico	104.3	152.7	4.4	2.4	83.2	2448.4	11.4	3.0	5.6
326	Zbz x Cal-Cno CM 10598-13Y-11M-3Y-0M	R*	Mexico	93.5	145.0	4.4	2.6	81.0	2957.1	12.9	19.0	18.9
327	Bb-Ska x Cdl CM 10744-16Y-1M-1Y-4M-0Y	B	Mexico	103.7	150.0	5.1	5.2	77.6	2349.6	3.5	12.2	4.2
328	(Cno-7CxCC-Tob/Cno"S"-No66)Kal=Orizaba"S"xCno"S"-No66/Kal CM 11377-A-1Y-8M-3Y-0M	R	Mexico	98.1	143.9	5.1	2.8	77.3	2795.4	4.2	14.1	5.6
329	(Cno-7CxCC-Tob/Cno"S"-No66)Kal=Orizaba"S"xCno"S"-No66/Kal CM 11377-A-1Y-9M-1Y-0M	R	Mexico	98.3	145.8	4.2	2.8	78.0	2306.0	6.2	17.0	4.3
330	(Cno-7CxCC-Tob/Cno"S"-No66)Kal-Orizaba"S"xCno"S"-No66/Kal CM 11377-A-1Y-7M-1Y-0M	B	Mexico	98.4	145.9	4.9	2.8	83.6	2714.4	7.6	25.8	8.1
331	CC-Kal(Az x Nad63-LR64/Bb) CM 11663-E-1Y-1M-3Y-0M	B*	Mexico	101.5	147.3	4.5	3.4	79.4	2660.6	22.1	10.0	11.1
332	Bobito"S" II 38837-9Y-1M-1Y-2M-2Y-0M	+R	Mexico	93.3	144.0	5.1	2.8	78.7	2387.8	4.2	9.7	10.6
333	HD 1220-Kal[3] 72L19	B	India	95.3	141.8	4.7	2.6	77.8	2569.4	14.0	2.3	7.3
334	E6057-Kal[2] 72L27	B	India	96.0	142.3	5.4	4.2	78.9	2590.5	6.4	12.8	9.3

Tabulation of maturity. Table 2 continued.

Entry No.	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Stem rust CI	Stripe rust CI
335	E6524-Kal[2] 72L41	B	India	94.1	142.9	5.4	3.4	82.2	2499.8	10.9	7.0	6.2
336	HD 1220-Kal[3] 72L221	B	India	96.6	148.2	4.7	2.6	80.8	2593.6	18.8	4.8	13.7
337	HD 1220-Kal[3] 72L222	B	India	96.5	147.4	5.9	2.0	79.8	2766.4	15.1	3.1	3.2
338	Dougga 74		Tunisia	98.2	145.2	5.2	3.8	77.8	2917.2	4.3	1.9	10.1
339	S948.A1-Cno"S"[2]xCno67[4] M499.71A-7B-3Y-1B-0Y	R	Mexico	90.4	140.2	6.6	3.4	59.0	2208.2	7.3	9.4	12.7
340	Jupateco			91.6	140.4	4.6	1.6	76.7	3113.5	8.3	11.3	19.0
341	S948.A1-Cno"S"[2] x Cno67[5] CMH72.391-10Y-1B-0Y	R	Mexico	90.3	139.1	6.7	2.4	58.8	2396.9	14.0	13.3	13.9
342	S948.A1-Cno"S"[2] x Cno67[3] M569.71-3Y-4B-0B-1B-0Y	R	Mexico	90.4	138.8	6.0	3.8	59.0	2459.1	9.0	9.1	21.2
343	S948.A1-Cno"S"[2] x Cno67[3] M569.71-3Y-3B-0Y-1B-0Y	R	Mexico	89.6	139.0	5.2	3.6	58.9	2538.2	10.3	11.0	13.8
344	S948.A1-Cno"S"[2]xCno67[6] CMH72A.429-11B-3Y-0B	R	Mexico	89.7	138.7	5.4	3.2	58.8	2392.9	4.9	7.1	9.0
345	S948.A1-Cno"S"[2] x Cno67[3] M570.71A-3Y-3B-0Y-2B-0Y	R	Mexico	89.2	138.7	6.7	3.8	59.6	2365.1	7.8	14.0	10.0
346	Tac x T.T.-S64/SP[5] M550.71-14Y-6B-0Y-3B-0Y	R	Mexico	86.6	136.2	6.2	3.0	74.4	2227.1	6.6	14.0	4.8
347	Tac x T.T.-S64/SP[5] M550.71-4Y-2B-1Y-2B-0Y	R	Mexico	87.3	136.6	4.7	3.0	77.0	2435.7	6.7	4.3	3.2
348	Tac x T.T.-S64/SP[5] M550.71-14Y-7B-1Y-1B-0Y	R	Mexico	86.5	136.4	6.1	2.4	74.5	2234.1	8.1	14.0	5.2
349	Tac x T.T.-S64/SP[5] M550.71-14Y-7B-0Y	R	Mexico	86.4	136.7	6.7	4.8	75.3	2354.9	9.8	15.7	6.2
350	(Chr x T.T.-Son64/Chr)Inia66[3] M283.70-3Y-2B-1Y-4B-4Y-2B-0Y	R	Mexico	90.3	141.3	7.4	3.0	58.0	2251.6	7.5	8.3	2.3
351	(Chr x T.T.-Son64/Chr)Inia66[3] M283.70-3Y-2B-1Y-4B-5Y-1B-0Y	R	Mexico	92.7	142.0	6.6	2.8	59.0	2613.0	7.1	8.3	2.0
352	(Chr x T.T.-Son64/Chr)Inia66[3] M283.70-3Y-2B-1Y-4B-1Y-2B-0Y	R	Mexico	93.2	141.7	6.2	2.2	58.3	2465.7	5.0	8.7	2.3
353	S948.A1-SE[7] CMH72A.390-2B-1Y-0B	RS	Mexico	94.9	143.2	5.7	3.4	74.3	2931.5	9.7	14.7	13.4
354	S948.A1-SE[5] M567.71-6Y-1B-0Y	RS	Mexico	93.3	142.2	5.7	3.0	73.3	2741.8	12.5	16.9	12.0
355	S948.A1-SE[7] CMH72.380-4Y-3B-0Y	RS	Mexico	95.0	142.6	6.5	3.4	77.5	2966.6	13.5	22.0	22.8
356	M285.70-Tob66 M411.71A-1B-4Y-1B-0Y	R	Mexico	94.3	142.4	8.0	2.2	80.4	2767.7	4.8	7.0	12.0
357	S948.A1-SE[5] M567.71-2Y-2B-2Y-1B-0Y	RS	Mexico	94.4	142.1	5.4	3.0	75.8	2699.9	10.9	16.9	16.6
358	S948.A1-SE[6] M498.71A-17B-2Y-1B-0Y	RS	Mexico	93.7	138.9	4.9	2.8	75.9	2740.7	10.3	18.4	16.0
359	S948.A1-SE[7] CMH72.380-2Y-1B-0Y	RS	Mexico	94.6	142.6	5.2	2.8	75.3	3087.5	12.0	22.3	29.0
360	Tenoti 71			87.9	137.3	5.6	2.6	74.4	2851.5	11.8	13.7	14.1
361	S948.A1-SE[5] M567.71-6Y-1B-1Y-1B-0Y	RS	Mexico	92.7	140.1	5.7	3.0	71.5	2832.1	14.1	16.1	17.7
362	S948.A1-SE[7] CMH72A.390-2B-1Y-0Y	RS	Mexico	93.8	140.9	5.7	3.4	72.6	2793.3	8.0	17.7	12.6

Tabulation of maturity. Table 2 continued.

Entry	Variety or cross and pedigree	Grain color	Origin 1974-75	Days to heading	Days to maturity	Septoria tritici	Septoria nodorum	Plant height cm	Yield kg/ha	Stem rust CI	Stem rust CI	Stripe rust CI
363	Nad63 x T.T.-S64/Nad63[3] H270.70A-2B-1Y-2B-3Y-2B-0Y	R	Mexico	100.6	147.5	4.6	3.6	63.7	2428.7	11.9	7.5	21.8
364	Chr-S948.A1 x Chr[5] CMH73.489-5Y-0B	R	Mexico	99.4	147.6	3.5	2.2	83.3	2649.9	7.0	3.5	12.5
365	Chr-S948.A1 x Chr[5] CMH73.489-2Y-0B	R	Mexico	99.9	147.8	4.2	2.4	84.3	2653.8	2.8	4.6	17.6
366	Nar59 x Cno"S"-Gallo =Nar59-Maya74"S" CMH73.939-6Y-0B	B	Mexico	90.3	142.7	4.9	2.9	78.2	2510.0	11.2	20.7	8.0
367	S948.A1-Cric[4] H474.71A-6B-1Y-1B-0Y	R	Mexico	100.1	148.2	5.2	2.2	78.8	2443.4	6.0	10.2	21.8
368	Chris-S948.A1 x Chris[5] CMH72A.309-5B-4Y-0B	R	Mexico	100.4	147.6	4.7	3.2	83.9	2453.3	6.1	3.5	8.1
369	S948.A1-Crim[4] H474.71A-7B-1Y-1B-0Y	R	Mexico	100.8	149.5	5.5	2.2	70.6	2236.5	2.7	17.9	23.3
370	Topo"S"-Nar59 H485.71-4Y-6B-2Y-1B-0Y	R	Mexico	91.3	140.8	6.0	3.8	53.2	1792.6	13.7	15.3	8.3
371	Erection Raf-Yecora 70 DHRL-18-10Y-0B	R	Mexico	90.4	138.8	4.9	2.6	72.0	2345.6	11.3	28.3	23.0
372	Erection Raf-Yecora 70 DHRL-18-13Y-0B	R	Mexico	91.3	140.3	5.7	4.8	74.5	2468.0	8.3	30.7	22.6
373	Erection Raf-Yecora 70 DHRL-19-14Y-0B	R	Mexico	90.9	140.8	6.2	3.8	73.9	2429.1	8.9	28.9	20.7
374	Erection Raf-Yecora 70 DHRL-18-15Y-0B	R	Mexico	91.2	141.2	6.4	2.8	74.7	2411.6	9.0	28.4	18.8
375	Erection Raf-Yecora 70 DHRL-18-16Y-0B	R	Mexico	90.7	138.5	5.7	3.6	73.7	2473.6	9.1	27.1	21.7
376	Erection Raf-Yecora 70 DHRL-18-17Y-0B	R	Mexico	90.7	138.5	7.1	2.8	73.1	2446.3	11.1	24.7	27.1
377	Erection Raf-Yecora 70 DHRL-18-18Y-0B	R	Mexico	91.6	138.4	6.6	2.8	72.4	2436.3	8.0	25.8	26.5
378	Erection Raf-Yecora 70 DHRL-18-19Y-0B	R	Mexico	91.6	140.8	6.4	3.6	73.7	2486.3	6.9	24.7	22.9
379	Erection Raf-Yecora 70 DHRL-18-23Y-0B	R	Mexico	91.5	141.1	6.1	3.8	73.8	2370.4	6.2	24.7	22.9
380	Siete Cerros			94.6	139.7	6.2	2.4	78.5	2730.9	17.7	38.1	27.9
381	Erection Raf-Nad 63 DHRL-15-2Y-0B	R	Mexico	95.7	145.0	5.7	3.6	76.9	2638.5	7.8	17.0	21.9
382	Erection Raf-Nad 63 DHRL-15-16Y-0B	R	Mexico	93.0	143.9	5.7	4.8	72.3	2663.7	10.5	23.2	33.6
383	Erection Raf-Lechuza#1 DHRL-8-1Y-0B	R	Mexico	92.0	143.2	5.9	2.8	52.5	2039.6	6.8	5.0	15.9
384	Erection Raf-Lechuza#1 DHRL-8-13Y-0B	B	Mexico	90.0	141.5	5.0	3.8	67.8	2340.7	9.1	2.8	7.2
385	Emu"S" CM 8327-C-9M-1Y-2M-2Y-1M-0Y	R	Mexico	95.7	144.0	5.1	3.4	78.5	3123.1	5.5	7.7	1.7
386	Npo-Cdl x Sam-Tor =Osprey"S" CM 8701-A-1M-2Y-3M-0Y	B	Mexico	93.8	145.1	5.0	2.2	73.4	2833.7	8.8	18.9	12.7

Table 3. Lines with average yield in the highest 10 per cent, and their rust reactions.

Entry	Cross and Pedigree	Average Yield Kg/ha	CI FOR RUST Stem	Leaf	Stripe
162	Pavon"S" CM-8399-D-4M-3Y-0M	3658	2.9	3.2	5.3
168	Pavon"S" CM-8399-D-4M-4Y-1M-1Y-1M-0Y	3639	12.7	5.6	7.3
163	Pavon"S" CM-8399-D-4M-4Y-1M-1Y-0M	3624	12.8	6.6	9.6
152	Moncho"S" CM-8288-A-3M-7Y-0M	3585	16.7	3.9	16.1
164	Pavon"S" CM-8399-D-4M-3Y-1M-1Y-0M	3534	2.3	3.9	7.9
159	Pavon"S" CM-8399-D-4M-3Y-1M-0Y	3523	6.0	5.1	5.3
161	Pavon"S" CM-8399-D-4M-3Y-3M-0Y	3499	9.9	6.2	7.1
147	Moncho "S" CM-8288-A-3M-6Y-5M-1Y-1M-0Y	3497	12.4	1.9	1.3
150	Moncho"S" CM-8288-A-3M-6Y-1M-1Y-1M-0Y	3442	10.5	2.8	0.7
174	Huacamayo "S" CM-8671-B-1M-1Y-1M-1Y-1M-0Y	3420	5.8	0.4	2.6
148	Moncho"S" CM-8288-A-3M-6Y-5M-1Y-0M	3407	13.1	3.8	0.1
156	Emu "S" CM-8327-C-9M-2Y-6M-2Y-0M	3319	3.7	10.4	2.6
151	Moncho"S" CM-8288-A-3M-6Y-5M-3Y-0M	3317	11.0	1.5	2.1
165	Pavon"S"= Pavon 76 CM-8399-D-4M-3Y-1M-1Y-1M-0Y	3307	2.7	3.6	4.1
90	BlueJay"S"= Nacozari 76 CM-5287-J-1Y-2M-2Y-3M-0Y	3296	13.4	26.4	18.8
208	Alondra "S" CM-11683-A-1Y-1M-1Y-8M-0Y	3288	4.8	7.9	4.4
160	Siete Cerros 66	3282	13.8	50.7	26.3
154	Emu "S" CM-8327-C-9M-1Y-5M-1Y-0M	3227	3.2	4.3	1.5
167	Pavon"S" CM-8399-D-4M-3Y-3M-1Y-0M	3220	7.9	5.2	10.1
181	LEE-RL 2564 x Fr/Ias 54 BR-8706-13M-1Y-5M-0Y	3219	26.8	10.3	4.2
166	Pavon"S" CM 8399-D-4M-2Y-2M-3Y-1M-0Y	3213	11.5	4.4	5.2
146	Moncho"S" CM-8288-A-3M-5Y-8M-1Y-1M-0Y	3198	12.4	5.6	14.7
149	Moncho"S" CM-8288-A-3M-6Y-5M-2Y-1M-0Y	3189	9.7	1.9	0.6
91	BlueJay"S" CM-5287-J-1Y-2M-1Y-4M-0Y	3188	7.4	25.4	4.1
138	CC-Inia x Bb(18M)/Cno"S"-7C CM-8252-G-1M-1Y-5M-5Y-1M-0Y	3183	12.0	7.6	20.1
155	Emu"S" CM-8327-C-9M-4Y-3M-0Y	3179	2.7	5.8	1.7
27	Kal-Bb II-26992-30M-1Y-1M-3Y-0M	3172	7.2	5.3	14.4
157	Emu"S" CM-8327-C-9M-1Y-1M-1Y-1M-0Y	3168	3.5	3.7	2.6
188	Chiroca "S" CM-8963-A-1M-2Y-7M-1Y-0M	3157	13.2	24.1	6.7
29	Cuckoo "S"	3151	11.7	24.4	18.6
20	Jupateco 73	3138	10.8	9.4	26.4
277	Hork"S" CM-8874-K-1M-1Y-0M-(1-105Y)	3135	20.8	4.4	16.0
124	We x Cno"S"-Inia"S" CM-7585-1M-1Y-4M-7Y-1M-0Y	3134	5.0	9.5	2.3
385	Emu"S" CM-8327-C-9M-1Y-2M-2Y-1M-0Y	3123	5.5	7.7	1.7
141	Moncho"S" CM-8288-A-3M-1Y-13M-0Y	3114	15.3	4.2	3.3
24	Gold Finch II-23561-E1	3104	7.2	20.7	4.7
185	Chiroca "S CM-8963-A-1M-1Y-1M-3Y-0M	3100	9.1	2.5	7.3
186	Chiroca "S" CM-8963-A-1M-1Y-1M-5Y-6M-0Y	3097	11.1	1.7	7.0
303	We x Cno"S"-Inia"S" CM-7585-1M-1Y-2M-3Y-0M	3095	7.6	9.9	7.7

TABLE 4. ENTRIES OF THE 9th IBWSN APPEARING WITH HIGHEST FREQUENCY IN THE TOP 10% OF THE HIGHEST YIELD IN 52 LOCATIONS

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD
152	Moncho "S" CM 8288-A-3M-7Y-OM	15	17	Cameroon (303), Bolivia (158), Netherlands (311), Bangladesh (42), South Africa (27), Nigeria (21), Israel (25[illegible])
				Greece (74), Guatemala (307), Mexico (132), South Korea (64), Pakistan (59), Malawi (314), Ecuador (169)
151	Moncho "S" CM 8288-A-3M-6Y-5M-3Y-OM	14	24	Costa Rica (216), Sudan (29), Bolivia (158), Colombia (164), Canada (120), Brazil (295), South Africa (27)
				Nigeria (21), Guatemala (307), Poland (309), South Korea (64), Chile (166), Ecuador (169)
147	Moncho "S" CM 8288-A-3M-6Y-5M-1Y-1M-OY	14	16	Costa Rica (216), Sudan (29), Senegal (304), Bangladesh (42), Canada (120), Tunesia (35), Brazil (295)
				South Africa (27), Nigeria (21), Iraq (101), Pakistan (59), Malawi (314), Ecuador (169)

TABLE 4. CONTINUATION.

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD						
160	SIETE CERROS	13	22	Mexico (130)	Senegal (304)	Argentina (156)	India (49)	India (48)	Spain (90)	Ireland (308)
				Mexico (132)	Iraq (101)	Iran (99)	Malawi (314)	Nicaragua (220)	Honduras (322)	
15	PERGAMO 62	13	23	Mexico (130)	Netherlands (311)	Bangladesh (43)	Tunesia (35)	South Africa (27)	Egypt (9)	
				Nigeria (21)	Spain (310)	Nicaragua (220)	Iran (99)	India (49)	India (50)	Rhodesia (23)
168	PAVON "S" CM 8399-D-4M-4Y-1M-1Y-1M-0Y	13	23	Mexico (130)	Costa Rica (216)	Senegal (304)	Colombia (164)	Bangladesh (43)	Ethiopia (10)	Egypt (9)
				Nigeria (21)	Israel (258)	Guatemala (307)	Mexico (132)	Pakistan (62)	Chile (166)	
17	CHANATE # 2 = Salamanca 75	12	15	Argentina (312)	Bangladesh (43)	Tunesia (35)	Egypt (8)	Mexico (265)	Poland (309)	
				Spain (310)	Honduras (322)	Israel (258)	Guatemala (307)	Bolivia (158)	Netherlands (311)	

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD					
20	JUPATECO 73	12	15	India (49)	Nigeria (21)	Mexico (132)	Iraq (101)	Pakistan (62)	Honduras (322)
				Spain (310)	Sudan (29)	Thailand (66)	Egypt (9)	Iran (99)	Mexico (265)
163	PAVON "S" CM 8399-D-4M-4Y-1M-1Y-OM	12	15	Mexico (130)	South Africa (305)	Cameroon (303)	Bolivia (158)	India (50)	Canada (120)
				Egypt (8)	Egypt (6)	Spain (90)	Mexico (132)	Chile (166)	Nicaragua (220)
148	MONCHO "S" CM 8288-A-3M-6Y-5M-1Y-OM	12	18	Costa Rica (216)	Sudan (29)	Colombia (164)	Bangladesh (42)	Tunesia (35)	Brazil (295)
				Ethiopia (10)	Nigeria (21)	Greece (74)	South Korea (64)	Ecuador (169)	
162	PAVON "S" CM 8399-D-4M-3Y-OM	12	18	Mexico (130)	Senegal (304)	Bangladesh (42)	India (49)	Canada (120)	Nigeria (21)
				Spain (90)	Poland (309)	Mexico (132)	Pakistan (62)	Chile (166)	Nicaragua (220)

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD					
166	PAVON "S" CM 8399-D-4M-2Y-2M-3Y-1M-OY	12	18	South Africa (305)	Colombia (164)	Bangladesh (42)	India (50)	Mexico (265)	Nigeria (21)
				South Korea (64)	Pakistan (62)	Pakistan (59)	Nicaragua (220)	Chile (166)	Nicaragua (220)
193	Bb - KAL CM 9160-11M-5Y-6M-OY	12	18	Bangladesh (42)	India (49)	India (48)	Tunesia (35)	Ethiopia (10)	Israel (258)
				Greece (74)	Australia (313)	Iraq (101)	South Korea (64)	Pakistan (62)	Netherlands (311)
303	We x Cno"S"-Inia"S" CM 7585-1M-1Y-2M-3Y-OM	12	18	Argentina (156)	India (50)	Tunesia (35)	Egypt (9)	Israel (258)	Spain (310)
				Guatemala (307)	Pakistan (59)	India (48)	Senegal (304)	Cameroon (303)	South Africa (305)
27	KAL - Bb II 26992-30M-300Y-300M-501Y-500M-OY	12	20	Bangladesh (42)	Thailand (66)	Bolivia (158)	Egypt (8)	South Africa (27)	Nigeria (21)
				Israel (258)	Poland (309)	Spain (310)	Rhodesia (23)	Honduras (322)	South Africa (305)

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD					
186	CHIROCA "S" CM 8963-A-1M-1Y-1M-5Y-6M-OY	12	22	Senegal (304)	India (48)	India (50)	Rhodesia (23)	South Africa (27)	Israel (258)
				Ireland (308)	Iran (99)	Pakistan (59)	Rhodesia (23)	Honduras (322)	Malawi (314)
174	HUACAMAYO "S" CM 8671-B-1M-1Y-1M-1Y-1M-OY	12	22	Costa Rica (216)	Senegal (304)	Bangladesh (42)	Canada (120)	Rhodesia (23)	South Africa (27)
				Spain (90)	Iraq (101)	Guatemala (307)	Spain (310)	Chile (166)	Pakistan (62)
164	PAVON "S" CM 8399-D-4M-3Y-1M-1Y-OM	12	23	Senegal (304)	Bolivia (158)	Colombia (164)	India (49)	Canada (120)	Egypt (8)
				South Africa (27)	Nigeria (21)	Spain (90)	Mexico (132)	Nicaragua (220)	Mexico (265)
24	GOLDFINCH "S" II 23561-E_1	11	13	Canada (120)	India (48)	Thailand (66)	Bolivia (158)	Tunesia (35)	Egypt (6)
				Ireland (308)	Poland (309)	Australia (313)	Mexico (132)	Honduras (322)	

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD					
277	HORK "S" CM 8874-K-1M-1Y-OM-(1-105Y)	11	13	Costa Rica (216)	Argentina (156)	India (50)	Canada (120)	Spain (90)	
				Pakistan (62)	Nicaragua (220)	Ecuador (169)	Australia (313)	Greece (74)	Sudan (29)
44	Y50E - KAL[3] II 35188-5M-(F1)-31Y-0M-17M-0Y	11	14	India (49)	Tunesia (35)	Nigeria (21)	Israel (258)	Greece (74)	Spain (90)
				Ireland (308)	Poland (309)	Mexico (132)	Pakistan (59)	Iran (99)	
90	BLUEJAY "S" = Nacozari 76 CM 5287-J-1Y-2M-2Y-3M-OY	11	15	India (49)	Ethiopia (10)	Mexico (265)	Israel (258)	Poland (309)	Spain (310)
				Mexico (132)	Nigeria (21)	Mexico (132)	Iran (99)	Argentina (156)	
181	LEE-RL 2564 x FR/IAS 54 Br 8706-13M-1Y-5M-OY	11	15	Mexico (130)	Cameroon (303)	Colombia (164)	India (48)	Canada (120)	
				South Africa (27)	Australia (313)	Mexico (132)	South Korea (64)	Nicaragua (220)	Chile (166)

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD					
7	ANZA	11	15	Sudan (7)	South Africa (305)	Bangladesh (43)	Egypt (8)	Greece (74)	
				Spain (310)	Australia (313)	South Korea (64)	Nicaragua (220)	Nigeria (21)	
355	S948.A1-SE[7] CMH72.380-4Y-3B-0Y	11	15	Mexico (130)	Thailand (66)	Bangladesh (42)	Guatemala (307)	Spain (310)	
				Pakistan (59)	Honduras (322)	Pakistan (62)	Cameroon (303)	Bolivia (158)	Malawi (314)
12	PITIC 62	11	16	Mexico (130)	Colombia (164)	Bangladesh (43)	Ireland (308)	Spain (310)	Nicaragua (220)
				Honduras (322)	Canada (120)	Iraq (101)	Israel (258)	Greece (74)	
73	SAPSUCKER "S" Br 69-1Y-3M-5Y-OM	11	16	Mexico (130)	Colombia (164)	Bangladesh (43)	Tunesia (35)	Mexico (265)	
				South Africa (27)	Honduras (322)	Sudan (29)	Egypt (8)	Pakistan (59)	Spain (310)

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD					
50	Bb-CNO"S" x Jy CO_E II 39104-42R-7M-3R-3M-OR	11	16	Thailand (66)	Bolivia (158)	Argentina (156)	Bangladesh (43)	Rhodesia (23)	
				Pakistan (59)	Honduras (322)	Sudan (29)	Iran (99)	Egypt (9)	Guatemala (307)
150	MONCHO "S" CM 8288-A-3M-6Y-1M-1Y-1M-OY	11	18	Thailand (66)	Senegal (304)	Colombia (164)	Bangladesh (42)	Rhodesia (23)	
				Brazil (295)	South Africa (27)	Nigeria (21)	South Korea (64)	Malawi (314)	Egypt (9)
258	KL. ATL x INIA Bb (NP 876-Pj 62 x CAL/BB) = COWBIRD "S" CM-16716-M-3M-2Y-1M-0Y	11	20	Mexico (130)	Costa Rica (216)	Cameroon (303)	India (50)	Brazil (295)	Ireland (308)
				Australia (313)	Nicaragua (220)	Honduras (322)	Malawi (314)	Egypt (9)	
189	Bb - KAL CM 9160-11M-4Y-1M-OY	11	20	South Africa (305)	Cameroon (303)	Colombia (164)	India (50)	Ethiopia (10)	Greece (74)
				Poland (309)	Australia (313)	Iraq (101)	Chile (166)	Netherlands (311)	

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD					
230	Cno-No66 x KAL-Bb/Bj"S"-On^2x Sx CM 12421-F-1Y-1M-5Y-4M-OY	11	22	Thailand (66)	Argentina (156)	Rhodesia (23)	Tunesia (35)	Brazil (295)	South Africa (27)
				Nicaragua (220)	Ecuador (169)	Honduras (322)	Chile (166)	Egypt (9)	
75	SAPSUCKER "S" Br 69-1Y-3M-7Y-OM	11	23	Colombia (164)	Mexico (265)	South Africa (27)	Guatemala (307)	South Korea (64)	
				Malawi (314)	Nicaragua (220)	Ecuador (169)	India (50)	Bolivia (158)	Sudan (29)
386	OSPREY "S" CM 8701-A-1M-2Y-3M-OY	10	8	Bolivia (158)	Colombia (164)	Netherlands (311)	India (49)	India (50)	Mexico (265)
				Spain (310)	South Korea (64)	Chile (166)	Honduras (322)		
138	CC-INIA x Bb (18M) /Cno"S"-7C CM 8252-G-1M-1Y-5M-5Y-1M-OY	10	11	Costa Rica (216)	Cameroon (303)	Argentina (156)	Pakistan (62)	Malawi (314)	
				Chile (166)	Spain (310)	Guatemala (307)	Nicaragua (220)	Mexico (132)	

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD				
188	CHIROCA "S" CM 8963-A-1M-2Y-7M-1Y-OM	10	16	Mexico (130)	Argentina (312)	South Africa (305)	Cameroon (303)	Senegal (304)
				Bolivia (158)	India (50)	Ethiopia (10)	Greece (74)	Pakistan (59)
146	MONCHO "S" CM 8288-A-3M-5Y-8M-1Y-1M-OY	10	16	Colombia (164)	Bangladesh (42)	Canada (120)	Brazil (295)	Egypt (8)
				Nigeria (21)	Greece (74)	South Korea (64)	Pakistan (59)	Ecuador (169)
359	S948.A1-SE 7 CMH 72.380-2Y-1B-OY	10	17	Mexico (130)	Costa Rica (216)	Egypt (8)	Spain (310)	South Korea (64)
				Pakistan (62)	Honduras (322)	South Korea (64)	Bangladesh (42)	Guatemala (307)
149	MONCHO "S" CM 8288-A-3M-6Y-5M-2Y-1M-OY	10	21	Costa Rica (216)	Sudan (29)	Bolivia (158)	Bangladesh (42)	Tunesia (35)
				Brazil (295)	Nigeria (21)	Ecuador (169)	Cameroon (303)	Egypt (9)

TABLE 4. CONTINUATION

		Frequency in top 10% at 52 sites	Average ranking at selected sites	SITES AND RANK SITE LOCATIONS WHERE ENTRY APPEARED IN THE TOP 10% OF THE HIGHEST YIELD				
74	SAPSUCKER "S" Br 69-1Y-3M-6Y-OM	10	21	Mexico (130)	Colombia (164)	Bangladesh (42)	Rhodesia (23)	Tunesia (35)
				Egypt (8)	Ireland (308)	Poland (309)	Cameroon (303)	South Korea (64)
192	Bb - KAL CM 9160-11M-5Y-5M-2Y-OM	10	22	Mexico (130)	Cameroon (303)	Senegal (304)	Bangladesh (42)	India (49)
				Ethiopia (10)	Mexico (265)	Greece (74)	Iraq (101)	Iran (99)
267	FLICKER "S" CM 8954-B-7M-1Y-1M-1Y-OM	10	22	Costa Rica (216)	South Africa (305)	Bolivia (158)	Argentina (156)	Nigeria (21)
				Guatemala (307)	Chile (166)	Canada (120)	Australia (313)	Pakistan (62)
185	CHIROCA "S" CM 8963-A-1M-1Y-1M-3Y-OM	10	24	Thailand (66)	Ethiopia (10)	Greece (74)	Ireland (308)	Poland (309)
				Iraq (101)	Pakistan (59)	Canada (120)	Spain (90)	India (48)

Table 5. Entries with an average coefficient of infection (CI) to stem rust of less than 5.0 over 26 locations [1] with their highest stem rust reaction (HR), average CI to leaf [2] and stripe rust [2], and average yield given [2]

Entry	Cross and Pedigree	Stem Rust CI	Stem Rust HR	Stem Rust Location	Leaf Rust CI	Stripe Rust CI	Yield kg/ha
270	Brochis"S" CM-5872-C-1Y-5M-2Y-2M-0Y	0.8	10S	317	4.7	0.5	2626
201	/(21931/Ch53-An x Gb56)An64/Odl CM-11243-28Y-4M-3Y-0M	0.9	10MR	23	1.6	0.7	2139
110	Brochis "S" CM-5872-C-1Y-1M-3Y-0M	1.2	20S	317	10.8	0.8	2613
135	Tito "S" CM-8212-D-4M-5Y-4M-500Y-500M-0Y	1.2	10S	14	5.0	13.2	2691
299	Brochis "S" CM-5872-C-1Y-5M-1Y-3M-0Y	1.3	10S	155	6.9	0.7	2540
134	Tito"S" CM-8212-D-4M-5Y-4M-9Y-0M	1.4	10S	14	10.8	16.5	2711
291	Cal x Bb-Cno/7C CM-5345-D-4Y-3M-2Y-4M-0Y	1.5	10S	23	9.1	5.4	2852
296	Brochis"S" CM-5872-C-1Y-1M-3Y-0M	1.5	5S	62	7.8	1.2	2899
194	Tob 66-Cha CM-10583-22Y-9M-1Y-1M-0Y	1.5	15S	14	3.0	2.4	2744
18	Cleopatra 74	1.6	20MS	27	12.2	13.6	3001
309	Bolsena "S" CM-8625-G-1M-4Y-1M-1Y-3M-0Y	1.6	5S	155	7.0	4.0	2527
237	Ktz M12-Ti71 CM 14952-66M-5Y-2M-0Y	1.6	30MS	321	6.5	2.6	2602
94	Ron-Cha#2 x Bb-Nor 67 CM-5484-F-5Y-4M-4Y-4M-1Y-0M	1.7	15S	14	6.6	7.4	2925
222	Bb-Cno x HD832/PI331253 CM-11913-H-1Y-4M-1Y-0M	1.8	20S	52	8.2	6.0	2555
172	Bolsena "S" CM-8625-G-1M-4Y-1M-0Y	1.9	20S	317	6.0	6.3	2829
137	Cno-Son x Bb-Inia/Tob x CC-Pato CM-8220-B-6M-1Y-10M-3Y-1M-0Y	2.0	15S	14	5.3	3.9	2594
127	Pichihuila "S" CM-7652-17Y-24M-1Y-0M	2.0	10S	50,317	2.6	[illegible].2	2636
125	Cno"S"-Gallo x Bb-Inia CM-7594-1M-4Y-1M-2Y-0M	2.2	10S	317	2.3	10.8	2550
108	/(Pi62xT.T.-Son64/Cno67)^2 Pi62/Cno^2-Chr x Bb CM-5856-1Y-2M-3Y-3M-0Y	2.2	20MS	155	12.3	10.0	2700
267	Flicker"S" CM-8954-B-7M-1Y-1M-1Y-0M	2.2	40S	23	13.4	15.3	2918
51	7C-Cno x Inia/NP876-Pj62 x Cno II-39998-1M-1R-0R	2.3	20S	155	13.9	17.8	2174
223	Cno-Inia"S"^{2} x Tor(Cno-7C x CC-Tob/Yr"S") CM-12229-K-16Y-1M-1Y-2M-0Y	2.3	10S	155	5.6	18.8	3057
164	Pavon "S" CM-8399-D-4M-3Y-1M-1Y-0M	2.3	10S	317	3.9	7.9	3534
301	Ron-Cha CM-6552-16M-1Y-5M-3Y-0M	2.4	20S	48	10.0	6.7	2420
255	ZZ-Dzi x Pato - Yr"S" CM-16679-E-4M-2Y-3M-0Y	2.4	20S	49	13.3	4.3	2510
115	Az67-Odl CM-7085-37M-4Y-3M-1Y-1M-0Y	2.4	25S	317	9.0	1.1	2813
235	Ktz M12-Ti71 CM-14952-29M-1Y-11M-0Y	2.4	30S	155	4.6	6.2	2530
170	(Cno-7C x CC-Tob/7C)Cno-Chr x Flr-No66 CM-8607-R-1M-7Y-4M-2Y-0M	2.5	25MS	62	2.8	4.3	2828
207	Alondra "S" CM-11683-A-1Y-1M-3Y-2M-0Y	2.5	20MR	23	8.8	4.5	3026
129	Pichihuila "S" CM-7652-35M-4Y-5M-2Y-1M-0Y	2.5	20S	321	8.0	12.0	2528
233	Tob x Kal-Bb CM-14868-16M-1Y-3M-0Y	2.6	20S	23	7.9	11.6	2842
107	Bj67-Cal x Tob-8156(R)/7C x Bb-Cno CM-5813-M-2Y-1M-2Y-4M-1Y-0M	2.6	40MS	23	4.9	16.4	2518
83	Sparrow "S" CM-2182-5M-1Y-2M-3Y-0M	2.7	20S	14	1.4	9.5	2728
155	Emu "S" CM-8327-C-9M-4Y-3M-0Y	2.7	40S	14	5.8	1.7	3180
369	S-948.A1-Crim^4 H474-71A-7B-1Y-1B-0Y	2.7	40S	48	17.9	23.3	2237
171	(Cno-7C x CC-Tob/7C)Cno-Chr x Flr-No66 CM-8607-R-1M-1Y-4M-1Y-0M	2.7	40MS	62	6.9	5.0	2751
165	Pavon 76 CM-8399-D-4M-3Y-1M-1Y-1M-0Y	2.7	30S	317	3.6	4.1	3307
365	Chr-S-948.A1 x Chr^5 CMH-73-489-2Y-0B	2.8	30S	14	4.6	17.6	2654
212	Cno"S"-Gallo/Kal-Bb x 7C-Nad63 CM-11771-G-3Y-8M-2Y-2M-0Y	2.8	20MS	321	3.0	4.8	2739

Table 5 . Entries with an average coefficient of infection (CI) (continuation)

Entry	Cross and Pedigree	Stem Rust CI	Stem Rust HR	Stem Rust Location	Leaf Rust CI	Stripe Rust CI	Yield kg/ha
297	Brochis "S" CM-5872-B-8Y-1M-2Y-1M-0Y	2.8	30S	317	6.2	2.4	2953
96	Ron-Chat2 x Bb-Nor67 CM-5484-F-5Y-4M-1Y-1M-1Y-0M	2.8	70S	23	9.9	3.5	3055
182	Npo-Cdl x Zbr CM-8935-D-5M-3Y-3M-2Y-0M	2.9	60S	23	14.3	5.9	2628
162	Pavon"S" CM-8399-D-4M-3Y-0M	2.9	30S	317	3.2	5.3	3658
26	Kal-Bb II-26992-30M-1Y-1M-3Y-0M	3.0	50S	23	10.1	12.3	2228
211	Alondra "S" CM-11683-A-1Y-1M-3Y-11M-0Y	3.0	30MR	48	12.3	5.7	2991
253	(Fr316/McM-Kt x Y50)Meng-8156 CM-16227-1M-1Y-3M-0Y	3.0	60S	48	17.2	4.8	2520
261	Kl.Atl x Inia-Bb(NP876-Pj62 x Cal/Bb)-Cowbird"S" CM-16716-N-1M-1Y-1M-0Y	3.0	20S	155	8.7	7.1	2577
41	Inia"S"-Npo 63 II-32801-100R-102R-101M-100R-0S	3.2	25MS	313	16.7	6.9	2979
154	Emu "S" CM-8327-C-9M-1Y-5M-1Y-0M	3.2	40MS	62	4.3	1.5	3227
63	Bb-Cno"S"/Cno-Tota x Jar II-41916-1R-100M-0M	3.2	40MS	23	9.3	15.7	2846
153	Emu "S" CM-8327-C-9M-1Y-1M-1Y-0M	3.2	15S	14	5.3	0.9	3068
106	Bj67-Cal x Tob-8156(R)/7C x Bb-Cno CM-5813-N-2Y-1M-2Y-1M-0Y	3.3	60S	23	4.4	16.0	2461
109	Brochis "S" CM-5872-B-0Y-1M-2Y-4M-0Y	3.3	40MS	23	6.7	1.2	2816
213	Bb-Cno x Inia-Soty(Kal-Bb/Inia-Cal x Inia-CC) CM-11780-J-1Y-2M-1Y-2M-0Y	3.3	40MS	23	1.0	1.6	2333
206	Alondra "S" CM-11683-A-1Y-1M-2Y-3M-0Y	3.3	30MS	23	9.1	1.8	2995
214	Lfn x Inia-Bb/Cno"S"-No66 CM-11808-A-3M-1Y-1M-0Y	3.3	40X	48	9.3	10.0	2290
232	B.Aust-Nad63 x Kal-Bb/Cno"S"-7C x Bb-Cal CM-12571-0-1Y-2M-0Y	3.4	15MS	321	7.2	13.4	2324
198	Kl.Atl/Tob-Cfn x Bb CM-11029-84Y-7M-1Y-2M-0Y	3.4	50S	23	4.4	3.J	2771
42	Bb-Gallo/Cno-SonxBb -Pollo"S" II-35129-26Y-2M-1Y-1M-1Y-0M	3.4	10S	155,317	7.3	5.1	2329
205	Alondra "S" CM-11683-A-1Y-1M-1Y-7M-0Y	3.5	30MS	23	7.6	0.7	2941
62	Cno"S"^{2}xLR64^2-Son/Cno-Tota x Jar II-41915-11R-0M	3.5	60MS-S	115	10.0	4.1	2398
327	Bb-Ska x Cdl CM-10744-16Y-1M-1Y-4M-0Y	3.5	40MS	23	12.2	4.2	2350
157	Emu "S" CM-8327-C-9M-1Y-1M-1Y-1M-0Y	3.5	30S	14	3.7	2.6	3168
113	Az67-Cdl CM-7085-37M-2Y-3M-1Y-0M	3.5	30MS	317	14.0	5.2	2879
209	Alondra "S" CM-11683-A-1Y-1M-3Y-0M	3.5	25MS	313	9.4	2.9	2955
265	Bolsena "S" CM-8625-E-1M-4Y-1M-0Y	3.6	30MS	23	8.3	5.4	2544
195	(Son64 x Sk_E-An_E/My_E-An_E)Tob-Cfn x Bb CM-10632-1Y-1M-1Y-1M-0Y	3.6	40S	23	25.5	6.2	2813
236	Ktz M12-Ti71 CM-14952-51M-1Y-1M-0Y	3.6	50S	321	4.[illegible]	2.8	2863
47	Bobito"S" II-38837-9Y-1M-1Y-2M-2Y-0M	3.6	30S	23	8.[illegible]	14.3	2679
103	Pato(R)-Cal/7C x Bb-Cno CM-5746-G-3Y-6M-1Y-1M-1Y-0M	3.6	20S	321	1.2	5.2	2825
184	Cniroca "S" CM-8963-A-1M-1Y-1M-4Y-0M	3.6	40S	321	1.9	7.3	3029
295	8156-Nad63 x Bb/Tob-8156 x Cno-Inia CM-5829-N-6Y-6M-3Y-6M-0Y	3.7	60S	48	3.7	5.1	2271
59	Inia"S"-Az67 x Bb#2 Resel II-40040-6M-2R-0M	3.7	60X	48	9.5	5.2	2190
77	(Bb"S"-Inia^2 x II-20350)$^2F_2$ CF.283-106R-1M-5R-0M	3.7	50MS	23	9.3	12.4	2362
244	Cyñ x Kal-Bb CM-15133-1M-3Y-6M-0Y	3.7	40S	313	4.4	1.9	2760
156	Emu"S" CM-8327-C-9M-2Y-6M-2Y-0M	3.7	40S	14	10.4	2.6	3319
322	Flicker "S" CM-8954-B-7M-1Y-1M-0Y	3.8	70S	23	11.5	12.9	2942
173	Yr x Son-Genesee /Cno-Chr x No66-Era CM-8670-B-2Y-9M-1Y-1M-0Y	3.8	40S	321	7.3	4.2	3017
28	Inia-Cno67 II-28036-11M-1R-2M-1T-0M	3.8	80S	23	10.5	12.7	2896
225	(Cno-No66/Son-Kl.RendxBb)Cno"S"-GallocInia-Jar CM-12330-K-2Y-1M-1Y-3M-0Y	3.9	40S	115	5.7	9.3	2633
136	Cno-Son x Bb-Inia/Tob x CC-Pato CM-8220-A-1M-1Y-4M-2Y-1M-0Y	3.9	30S	317,321	4.0	3.9	2913
311	(Cno^2 x Son64-Kl.Rend/Ron)Sx CM-8922-H-1M-1Y-3M-1Y-0M	4.0	40X	48	13.5	3.7	2466
114	Az67-Cdl CM-7085-37M-3Y-10M-1Y-0M	4.0	40S	48	2.4	12.5	3020

Table 5 . Entries with an average coefficient of infection (CI) etc. (continuation)

Entry	Cross and Pedigree	Stem Rust CI	Stem Rust HR	Stem Rust Location	Leaf Rust CI	Stripe Rust CI	Yield Kg/ha
241	Cj71-Cpr CM-15070-1M-1Y-1M-0Y	4.1	40S	321	2.2	2.3	2986
199	(Tob"S"-Inia"S"/Son66 x Sk_E^6-An)Bb4A CM-11177-21Y-2M-1Y-1M-0Y	4.2	40S	321	2.4	11.4	2724
243	Cgñ x Kal-Bb CM-15133-1M-3Y-2M-0Y	4.2	40S	313	4.4	1.7	2747
328	(Cno-7C x CC-Tob/Cno"S"-No66)Kal CM-11377-A-1Y-8M-3Y-0M	4.2	40S	48	14.1	5.6	2795
332	Bobito"S" II-38837-9Y-1M-1Y-2M-2Y-0M	4.2	60S	62	9.7	10.6	2388
338	Dougga 74	4.3	50S	23	1.9	10.1	2817
227	(Cno-No66/Son64-Kl.RendxBb)/Cno"S"-GallocInia-Jar CM-12330-K-2Y-1M-2Y-1M-0Y	4.3	30S	50	1.4	7.3	2557
19	Jaral "S" II-18889-6T-4T-2T-1T-0Y	4.4	70S	23	3.5	11.0	2499
252	(Fr316/McM-Kt x Y50)Meng-8156 CM-16227-1M-1Y-1M-0Y	4.5	60S	48	15.4	5.5	2578
224	Pi62 x Cno-7C/Cno-No66 x Vom CM-12279-R-2Y-1M-3Y-1M-0Y	4.5	40S	62	4.4	2.5	2891
216	Cno"S"-Gallo x Nar59-On/Nad63-LR64 x Bb CM-11870-B-3Y-1M-1Y-12M-0Y	4.6	60MR	319	8.4	9.9	2710
263	Pato-Tob66 CM-16860-23M-1Y-12M-0Y	4.6	40MS	23	16.0	1.8	2789
215	(Cno-No65/Son64-Kl.Rend x Bb)Bb^2-Np876 CM-11856-A-1Y-2M-1Y-0M	4.7	40S	155	7.7	3.7	2568
262	Pato-Tob66 CM-16860-23M-1Y-11M-0Y	4.7	40MS	23	15.4	2.0	2758
251	Pato-Gn x Cno"S"-Gallo CM-16216-3M-1Y-1M-0Y	4.7	40S	23,48	4.5	5.3	2773
25	Inia 66-Bb II-26478-34Y-1M-2T-4M-3S-0M	4.7	50S	23	6.0	16.0	2842
242	Cgñ x Kal-Bb CM-15133-1M-1Y-1M-0Y	4.7	50S	23	4.8	1.8	2659
256	Dzi-Tob66(Nad-LR64 x Bb/Bb-Nor67) CM-16705-A-1M-1Y-6M-0Y	4.7	80MS	27	12.2	1.0	2827
355	H285.70-Tob66 H411.71A-1B-4Y-1B-0Y	4.8	30S	14	7.0	12.0	2768
208	Alondra "S" CM-11683-A-1Y-1M-1Y-8M-0Y	4.8	40MS	23	7.9	4.4	3288
298	Brochis"S" CM-5872-B-8Y-1M-2Y-4M-0Y	4.8	30S	155	7.3	1.6	2871
264	Az67-Nr70 CM-18207-3M-2Y-1M-0Y	4.8	40S	115	5.2	7.6	2553
344	S948A1-Cno"S" x $Cno67^6$ CMH 72A.429-11B-3Y-0B	4.9	40S	115	7.1	9.0	2393
226	(Cno-No66/Son64-Kl.RendxBb)Cno"S"-GallocInia-Jar CM 12330-K-2Y-1M-2Y-0M	4.9	30S	50	2.6	5.6	2678

1/ The average CI for stem rust was calculated from 26 locations with location number in parentheses as follows:
Egypt (Sakha (8) and Giza (7)), Ethiopia (10), Kenya (14), Rhodesia (23), South Africa (Transwall (305) and Orange Free State (27), India (New Delhi (50), Rajasthan (52), Maharashtra (49), Madhya Pradesh (48)),Pakistan (Islamabad (319), and Tandojam (62)), Turkey (Izmir (115) and Diyarbakir (261), Yemen (317), Afghanistan (41), Australia (Roseworthy (313)), Argentina (Platina (312) and Cordoba (155)), Brazil (Parana (295)), Paraguay (321), Mexico (Toluca (129)), Greece (74) and Czechoslovakia (226).

2/ The average CI for leaf and stripe rust and yield was based on 43,21, and 47 locations respectively. Locations reporting these characters are given in Tables 1 and 2.

TABLE 6 . Entries with an average coefficient of infection (CI) to leaf rust of less than 5.0 over 43 locations 1/ with their highest reaction (HR), average CI to stem 2/ and stripe rust 3/ and average yield 2/

Entry	Cross and Pedigree	Leaf rust CI	Leaf rust HR	Location	Stem rust CI	Stripe rust CI	Yield kg/ha
174	Huacamayo "S" CM-8671-B-1M-1Y-1M-1Y-1M-0Y	0.4	10MR-MS	126	5.8	2.6	3420
53	Inia"S"-Az67/Inia-Cno"S" x Cal II-40007-4M-5R-0M	0.6	5MR	62	7.2	4.3	2588
213	Bb-Cno x Inia-Soty(Kal-Bb/Inia-Cal x Inia-CC) CM-11760-J-1Y-2M-1Y-2M-0Y	1.0	10MS	62	3.3	1.6	2333
103	Pato(R)-Cal/7C x Bb-Cno CM-5746-G-3Y-6M-1Y-1M-1Y-0M	1.2	10S	141	3.6	5.2	2825
83	Sparrow"S" CM-2182-5M-1Y-2M-3Y-0M	1.4	25S	61	2.7	9.5	2728
227	(Cno-No66/Son64-Kl.Rend x Bb)Maya"S" x Inia-Jar CM-12330-K-2Y-1M-2Y-1M-0Y	1.4	40MR	321	4.3	7.3	2557
248	Woodpecker"S" CM-15856-6M-5Y-3M-0Y	1.4	10S	8,48	9.1	0.4	2596
151	Moncho"S" CM-8288-A-3M-6Y-5M-3Y-0M	1.5	30MS	317	11.0	2.1	3317
183	Chiroca"S" CM-8963-A-1M-1Y-1M-1Y-0M	1.6	30MS-MR	127	6.6	9.3	2997
201	/(21931/Ch53-An x Gb55)An64/Cdl CM-11243-28Y-4M-3Y-0M	1.6	40MR	321	0.9	0.7	2139
186	Chiroca"S" CM-8963-A-1M-1Y-1M-5Y-6M-0Y	1.7	20MS	319	11.1	7.0	3097
104	Pato(R)-Cal/7C x Bb-Cno CM-5746-G-3Y-6M-1Y-5M-2Y-0M	1.8	50MS	321	5.0	3.2	2823
175	Huacamayo"S" CM-8671-B-5M-1Y-2M-1Y-1M-0Y	1.8	20S	317	9.8	2.6	3062
338	Dougga 74	1.9	15S	312	4.3	10.1	2817
238	Ktz M12-T171 CM-14952-69M-5Y-1M-0Y	1.9	60MS	321	5.7	8.8	3013
147	Moncho"S" CM-8288-A-3M-6Y-5M-1Y-1M-0Y	1.9	40S	321	12.4	1.3	3497
184	Chiroca"S" CM-8963-A-1M-1Y-1M-4Y-0M	1.9	20S	48	3.6	7.3	3029
149	Moncho"S" CM-8288-A-3M-6Y-5M-2Y-1M-0Y	1.9	40MS	317	9.7	0.6	3189
67	S331-Norteño J43-2L	2.0	30MS	155	9.1	10.7	2234
323	Bork "S" CM-8874-K-1M-3Y-1M-1Y-0M	2.0	20S	49	10.8	12.6	2644
241	Cj71-Cpr CM-15070-1M-1Y-1M-0Y	2.2	40MS-S	129	4.1	2.3	2986
125	Maya 74"S"-Torim73"S" CM-7594-1M-4Y-1M-2Y-0M	2.3	20MS	317	2.2	10.8	2550
333	HD 1220-Kal^3 72L19	2.3	20S	49	14.0	7.3	2569
57	Cno-Inia"S" x Bb"S"-Nor67 II-40011-9M-4R-0M	2.3	10S	52	6.5	4.8	2484
187	Chiroca"S" CM-8963-A-1M-1Y-1M-1Y-9M-0Y	2.3	25MS	62	11.5	8.4	3017
177	Huacamayo"S" CM-8671-B-5M-3Y-2M-4Y-1M-0Y	2.3	30S	321	12.8	7.6	2869
144	Moncho"S" CM-8288-A-3M-4Y-5M-2Y-0M	2.4	40S	317	9.0	0.5	3050
199	(Tob"S"-Inia"S"/Son64 x SK^6-An)Bb4A CM-11177-21Y-2M-1Y-1M-0Y	2.4	10MS	62	4.2	11.4	2724
114	Az67-Cdl CM-7085-37M-3Y-10M-1Y-0M	2.4	40S	155	4.0	12.5	3020
192	Bb-Kal CM-9160-11M-5Y-5M-2Y-0M	2.5	25S	317	8.6	3.5	2888
105	Chiroca"S" CM-8963-A-1M-1Y-1M-3Y-0M	2.5	60S	317	9.1	7.3	3100
127	Pichihuila"S" CM-7652-17Y-42M-1Y-0M	2.6	40MR-MS	317	2.0	4.2	2636
56	Inia"S"-Az67/Inia-Cno"S" x Cal II-40007-28M-2R-0M	2.6	40S	48	10.7	5.8	2705
226	(Cno-No66/Son64-Kl.Rend x Bb)Maya"S"x Inia-Jar CM-12330-K-2Y-1M-2Y-0M	2.6	30S	155	4.9	5.6	2678
143	Moncho"S" CM-8288-A-3M-3Y-10M-1Y-1M-0Y	2.7	60S	317	10.7	1.7	2985
131	Pichihuila"S" CM-7652-35M-1Y-1M-0Y	2.7	20MR-MS	126,128	7.5	12.5	2272
170	Orizaba"S"-7C/Cno-Chr x Flr-No66 CM-8607-R-1M-7Y-4M-2Y-0M	2.8	30S	312	2.5	4.3	2828
170	Huacamayo"S" CM-8671-B-5M-3Y-2M-4Y-0M	2.8	40S	321	11.8	3.3	3056
55	Inia"S"-Az67/Inia-Cno"S" x Cal II-40007-22M-11R-0M	2.8	30S	52	8.5	4.9	2337
150	Moncio"S" CM-8288-A-3M-6Y-1M-1Y-1M-0Y	2.8	60S	317	10.5	0.7	3442
334	Erection Raf-Lechuza II / DHRL-8-13Y-0B	2.8	50MS-S	128	9.1	7.2	2341
61	Inia-Cno"S" x Cal/Yr70 =Yecorato"S" II-40041-12M-7R-0M	2.9	40S	307	11.2	5.0	2566
212	Maya74"S"/Kal-Bb x 7C-Nad63 CM-11771-G-3Y-8M-2Y-2M-0Y	3.0	50MS	321	2.8	4.8	2739
52	Inia"S"-Az67/Inia-Cano"S" x Cal II-40007-	3.0	30S	132	8.6	6.3	2301
194	Tob66-Cha CM-10583-22Y-9M-1Y-1M-0Y	3.0	60S	155	1.5	2.4	2744

TABLE 6 . continued

Entry	Cross and Pedigree	Leaf rust CI	Leaf rust HR	Location	Stem rust CI	Stripe rust CI	Yield kg/ha
325	Bb-Kal CM-9160-11M-5Y-4M-1Y-0M	3.0	30S	27	11.4	5.6	2448
337	HD 1220-Kal^3 72L222	3.1	60MS	321	15.1	3.2	2766
274	Tob-8156 x CC-Inia CM-1208-1Y-4M-3Y-2M-0Y	3.1	20S	155	5.7	8.5	2491
275	Hork"S" CM-8874-K-1M-1Y-0M-(1-113Y)	3.1	40S	48	13.8	18.5	2863
228	(Cno-No66/Son64-Kl.Rend x Bb)Maya74"S" x Inia-Jar CM-12330-K-2Y-5M-2Y-1M-0Y	3.2	60MS	321	5.9	7.7	2609
162	Pavon"S" CM-8399-D-4M-3Y-0M	3.2	40S	155	2.9	5.3	3658
282	Bb-Nor67 x Cno"S"-7C CM-1586-500M-500Y-500B-0Y	3.2	40S	155	11.0	0.8	2621
276	Hork"S" CM-8874-K-1M-1Y-0M-(1-356Y)	3.3	40S	48	12.8	19.4	3013
193	Bb-Kal CM-9160-11M-5Y-6M-0Y	3.3	50S	317	8.4	3.0	2867
249	An$_E$-My54 x Ti71 CM-15928-3M-1Y-7M-0Y	3.4	40S	155	7.0	3.2	3013
19	Jaral"S" II-18889-6T-4T-2T-1T-0Y	3.5	50S	155	4.4	11.0	2499
364	Chr-S948.A1 x Chr^5 CMH73.489-5Y-0B	3.5	30S	128	7.0	12.5	2650
45	Cno-8156 x Tob-Cno(No66/12300 x LR64-8156) II-38732-5T-2M-4R-0M	3.5	60S	48	8.8	9.2	2564
368	Chris-S948.A1 x Chris^5 CMH72A.309-5B-4Y-0B	3.5	20S	155	6.1	8.1	2453
191	Bb-Kal CM-9160-11M-5Y-1M-2Y-0M	3.5	30S	27	7.8	5.1	2594
165	Pavon 76 CM-8399-D-4M-3Y-1M-1Y-1M-0Y	3.6	30S	155	2.7	4.1	3307
189	Bb-Kal CM-9160-11M-4Y-1M-0Y	3.6	30S	27,317	13.2	4.3	2744
318	Cno-7C x Cno-Inia/Sx CM-8943-1M-2Y-1M-2Y-0M	3.6	30S	155	19.6	12.2	2799
118	Bb-Cal x Pj62 CM-7525-33M-5Y-3M-1Y-0M	3.7	60S	155	18.1	10.5	2781
295	8156-Nad63 x Bb/Tob-8156 x Cno-Inia CM-5829-N-6Y-6M-3Y-6M-0Y	3.7	80S	48	3.7	5.1	2271
157	Emu"S" CM-8327-C-9M-1Y-1M-1Y-1M-0Y	3.7	40S	155	3.5	2.6	3168
58	Inia-Cno"S"^{2} x Cal/LR64^2-Son64 II-40029-2M-2R-0M	3.7	30MS-S	127	5.8	10.8	2956
169	Pavon"S" CM-8399-D-4M-4Y-2M-2Y-0M	3.7	30S	155	6.8	9.2	3029
132	Npo-Tob"S" x 8156/Kal-Bb =Carthage"S" x Kal-Bb CM-7806-15M-2Y-2M-1Y-0M	3.8	40MS-S	155	5.4	2.2	2748
148	Moncho"S" CM-8288-A-3M-6Y-5M-1Y-0M	3.8	60S	317	13.2	0.1	3407
317	Cno-7C x Cno-Inia/Sx CM-8943-F-1M-2Y-1M-1Y-0M	3.8	70MS	321	18.3	6.0	2912
190	Bb-Kal CM-9160-11M-5Y-1M-1Y-0M	3.9	20S	48,317	7.8	5.4	2752
49	Cno"S"-Pj62 x Cno"S"-On II-38915-3R-5M-4R-4M-0R	3.9	60S	155	11.7	1.8	2219
164	Pavon"S" CM-8399-D-4M-3Y-1M-1Y-0M	3.4	60S	321	2.3	7.9	3534
152	Moncho"S" CM-8288-A-3M-7Y-0M	3.9	60S	321	16.7	16.1	3585
136	Cno-Son x Bb-Inia/Tob x CC-Pato CM-8220-A-1M-1Y-4M-2Y-1M-0Y	4.0	60S	155	3.9	3.9	2913
139	Moncho"S" CM-8288-A-3M-1Y-5M-0Y	4.0	40S	317	13.4	4.1	2969
145	Moncho"S" CM-8288-A-3M-5Y-4M-0Y	4.1	40S	321	10.7	8.7	2934
141	Moncho"S" CM-8288-A-3M-1Y-13M-0Y	4.2	60S	317	15.3	3.3	3114
347	Tac x T.T.-S64/Sp^5 H550.71-4Y-2B-1Y-2B-0Y	4.3	60S	295	6.7	3.2	2436
154	Emu"S" CM-8327-C-9M-1Y-5M-1Y-0M	4.3	50S	155	3.2	1.5	3227
224	Pi62 x Cno-7C/Cno-No66 x Vcm CM-12279-R-2Y-1M-3Y-1M-0Y	4.4	50S	155,312	4.5	2.5	2891
244	Cgñ x Kal-Bb CM-15133-1M-3Y-6M-0Y	4.4	40S	312	3.7	1.9	2760
166	Pavon"S" CM-8399-D-4M-2Y-2M-3Y-1M-0Y	4.4	60S	155	11.5	5.2	3213
243	Cgñ x Kal-Bb CM-15133-1M-3Y-2M-0Y	4.4	50S	312	4.2	1.7	2747
198	Kl.Atl/Tob-Cfn x Bb CM-11029-84Y-7M-1Y-2M-0Y	4.4	70S	155	3.4	3.0	2771
106	Bj67-Cal x Tob-8156(R)/7C x Bb-Cno CM-5813-M-2Y-1M-2Y-1M-0Y	4.4	20S	312	3.3	16.0	2461
277	Hork"S" CM-8874-K-1M-1Y-0M-(1-105Y)	4.4	60S	317	20.8	16.0	3135
251	Pato-On x Maya74"S" CM-16216-3M-1Y-1M-0Y	4.5	50S	[illegible]8	4.7	5.3	2773
236	Ktz M12-Ti71 CM-14952-51M-1Y-1M-0Y	4.5	50MS-S	129	3.6	2.8	2863

TABLE 6 . continued

Entry	Cross and pedigree	Leaf rust CI	Leaf rust HR	Location	Stem rust CI	Stripe rust CI	Yield kg/ha
365	Chr-S948.A1 x Chr[5] CMH73.489-2Y-0B	4.6	15S	155	2.8	17.8	2654
235	Ktz M12-Ti71 CM-14952-29M-1Y-11M-0Y	4.6	40S	15S,312	2.4	6.2	2530
270	Brochis"S" CM-5872-C-1Y-5M-2Y-2M-0Y	4.7	40S	155	0.8	0.5	2656
242	Cgñ x Kal-Bb CM-15133-1M-1Y-1M-0Y	4.8	70S	321	4.7	1.8	2659
336	HD 1220-Kal[3] 72L221	4.8	70S	321	18.8	13.7	2594
307	We x Tob-Cno"S"/Cdl CM-8285-T-500M-503Y-0M-501M-0Y	4.8	60S	317,49	11.8	17.0	2486
107	Bj67-Cal x Tob-8156(R)/7C x Bb-Cno CM-5813-M-2Y-1M-2Y-4M-1Y-0M	4.9	40S	155	2.6	16.4	2518

1/ Average CI for leaf rust was calculated from 43 locations as follows (with location number):
Egypt (Giza7, Sakha 8, Batheem 6, ALAD 8), Ethiopia 10, South Africa (Orange Free State 27), Yemen 317, Israel 103, Turkey (Izmir 115, Dijarbakir 261), Lebanon 107, Afghanistan 41, India (Bihar 44, Indore 48, Maharashtra 49, New Delhi 50, Punjab 51, Rajasthan 52, Uttar Pradesh 53), Pakistan (Islamabad 319, Tandojam 62, Punjab 61) Nepal (Bhairakowa 55, Rampur 320), Bangladesh (Joydelpur 42, Ishurdi 47), Japan 54, Argentina (Cordoba 155, Buenos Aires 312), Brazil 295, Paraguay 321, Guatemala 307, Uruguay 173, Mexico (Sinaloa 131, Sonora 132, El Batan 128, Toluca 129, Jalisco 127, Rio Bravo 329, Guanajuato 126), Rumania 85, North Dakota, USA, 141.

2/ Average CI for stem and stripe rust and yield was based on 26, 21, and 47 locations respectively. Locations reporting these characters are given in Tables 1 and 2.

TABLE 7 Entries with an average coefficient of infection (CI) to stripe rust of less than 5.0 over 21 locations 1/ and an average head infection of trace or less 2/ will highest reaction (HR) and location, average CI to stem and leaf rust 3/ and average yield 3/

Entry	Cross and Pedigree	Stripe rust CI	Stripe rust HR	Location	Stem rust CI	Leaf rust CI	Yield Kg/ha
246	Pollo-Pato (B) CM-15818-13M-1Y-1M-0Y	0.1	TMS	169	14.4	11.3	2734
285	Sajame "S" CM-4210-10Y-4M-8Y-2M-1Y-0M	0.1	TMS	169	5.6	24.4	2965
148	Moncho "S" CM-8288-A-3M-6Y-5M-1Y-0M	0.1	5MR	115	13.2	3.8	3407
248	Woodpecker "S" CM-15856-6M-5Y-3M-0Y	0.4	TMS	169	9.1	1.4	2596
270	Brochis "S" CM-5872-C-1Y-5M-2Y-2M-0Y	0.5	TMS	169	0.8	4.7	2626
247	Pollo "S"-Pato(B) CM-15818-13M-1Y-13M-0Y	0.5	10S	166	12.4	11.2	2792
149	Moncho "S" CM-8288-A-3M-6Y-5M-2Y-1M-0Y	0.6	20MR	115	9.7	1.9	3189
245	Pollo "S"-Pato(B) CM-15818-19M-2Y-3M-0Y	0.6	15MS	169	9.5	7.2	2604
299	Brochis "S" CM-5872-C-1Y-5M-1Y-3M-0Y	0.7	15MR	169	1.3	6.9	2540
205	Alpndra "S" CM-11683-A-1Y-1M-1Y-7M-0Y	0.7	5S	166	3.5	7.6	2991
288	Sajame "S" CM-4210-10Y-500M-500Y-0M	0.7	10MR-MS	128	7.2	2.7	2611
201	/(21931 /CH53-An x Gb56) An64 /Cdl CM-11243-28Y-4M-3Y-0M	0.7	5MS	166	0.9	1.7	2139
282	Bb-Nor67 x Cno"S"-7C CM-1586-500M-500Y-500B-0Y	0.8	TMS	169	11.0	3.2	2621
110	Brochis "S" CM-5872-C-1Y-1M-3Y-0M	0.8	15MS	169	1.2	10.8	2613
86	Sajame "S" CM-4210-10Y-4M-8Y-2M-1Y-0M	0.8	5MR	35	6.8	22.7	2656
153	Emu "S" CM-8327-C-9M-1Y-1M-1Y-0M	0.9	10MS	166,169	3.2	5.3	3068
256	Dzi-Tob66 (Nad-Lr64 x Bb/Bb-Nor67) CM-16705-A-1M-1Y-6M-0Y	1.0	10S	52	4.7	12.2	2827
286	Sajame "S" CM-4210-10Y-4M-3Y-2M-2Y-0M	1.0	5MR	35	6.1	24.9	2801
84	Sajame "S" CM-4210-10Y-4M-8Y-5M-1Y-0M	1.0	10MR-MS	128	5.6	20.6	3014
115	Az-Cdl CM-7085-37M-4Y-3M-1Y-1M-0Y	1.1	20MS	169	2.4	9.0	2813
109	Brochis "S" CM-5872-B-8Y-1M-2Y-4M-0Y	1.2	15MS	169	3.3	6.7	2816
296	Brochis"S" CM-5872-C-1Y-1M-3Y-0M	1.2	5S	166	1.5	7.8	2899
85	Sajame "S" CM-4210-10Y-4M-3Y-2M-2Y-0M	1.3	30MS	169	5.4	21.0	2719
128	Pichihuila "S" CM-7652-26M-3Y-0M	1.4	10S	52	11.6	16.0	2756
230	Cno-No66 x Kal-Bb/Bj"S"-Om^{2}x Sx CM-12421-F-1Y-1M-5Y-4M-0Y	1.5	30MS	169	10.8	11.6	2793
287	Sajame"S" CM-4210-10Y-4M-8Y-2M-0Y	1.5	15MS	169	5.3	26.1	2647
298	Brochis "S" CM-5872-B-8Y-1M-2Y-4M-0Y	1.6	20MS	169	4.8	7.3	2871
213	Bb-Cno x Inia-Soty (Kal-Bb/Inia-Cal x Inia-CC) CM-11780-J-1Y-2M-1Y-2M-0Y	1.6	TMS	261	3.3	1.0	2333
243	Cgñ x Kal-Bb CM-15133-1M-3Y-2M-0Y	1.7	TS	14	4.2	4.4	2747
385	Emu "S" CM-8327-C-9M-1Y-2M-2Y-1M-0Y	1.7	20MS	166,169	5.5	7.7	3123
254	IAS-WS 1812 (Cha/Tob-Cfn x Bb) CM-16634-D-1M-1Y-10M-0Y	1.8	20MS	166	22.5	9.7	2823
263	Pato-Tob 66 CM-16860-23M-1Y-12M-0Y	1.8	10SS	312	4.6	16.0	2789
242	Cgñ x Kal-Bb CM-15133-1M-1Y-1M-0Y	1.8	10S	166	4.7	4.8	2659
206	Alondra "S" CM-11683-A-1Y-1M-2Y-3M-0Y	1.8	10S	261	3.3	9.1	2995
244	Cgñ x Kal-Bb CM-15133-1M-3Y-6M-0Y	1.9	15S	51	3.7	4.4	2760
70	LEE-RL 2564 x Fr / IAS 54 BR-8706-13M-1Y-2M-0Y	2.0	5S	14,50	13.3	9.5	3056
262	Pato-Tob 66 CM-16860-23M-1Y-11M-0Y	2.0	20S	312	4.7	15.4	2758
293	Ron-Cha x Bb-Nor 67 CM-5484-F-1Y-1M-2Y-1M-0Y	2.0	5S	166	7.3	7.4	2596
351	(Chr x T.T.-Son64/Chr) Inia 66^3 H-283-70-3Y-2B-1Y-4B-5Y-1B-0Y	2.0	10S	52	7.1	8.3	2613
204	Ska-Cal/Cc x Cno-Son64 CM-11667-H-1Y-2M-2Y-1M-0Y	2.2	10MS	169	7.8	7.4	2628
132	Npo-Tob"S" x 8156/ Kal-Bb CM-7806-15M-2Y-2M-1Y-0M	2.2	20MS	166	5.4	3.8	2748

Table 7. continued

Entry	Cross and Pedigree	Stripe rust CI	Stripe rust HR	Location	Stem rust CI	Leaf rust CI	Yield (kg/ha)
241	Cj 71-Cpr CM-15070-1M-1Y-1M-0Y	2.3	10MS	166	4.1	2.2	2986
352	(Chr x T.T.-Son64/Chr)Inia 66[3] H-283-70-3Y-2B-1Y-4B-1Y-2B-0Y	2.3	20S	52	5.0	8.7	2466
297	Brochis "S" CM-5872-B-8Y-1M-2Y-1M-0Y	2.4	30MS	169	2.8	6.2	2951
229	IAS-Pato /(Cno-Son64/Np 880-Pj62 x Cal) We/ CM-12373-L-3Y-1M-0Y	2.4	10S	261	22.0	15.9	2883
224	Pi62 x Cno-7C/Cno-No66 x Vcm CM-12279-R-2Y-1M-3Y-1M-0Y	2.5	5S	50	4.5	4.4	2891
237	Ktz M12-Ti 71 CM-14952-66M-5Y-2M-0Y	2.6	20S	52	1.6	6.5	2602
174	Huacamayo "S" CM-8671-B-1M-1Y-1M-1Y-1M-0Y	2.6	20MS	169	5.8	0.4	3420
314	Npo-Cdl x Zbz CM-8935-D-5M-3Y-1M-2Y-0M	2.7	20MS	169	12.5	7.3	2803
209	Alondra "S" CM-11683-A-1Y-1M-3Y-0M	2.9	20S	171	3.5	9.4	2955
313	Npo-Cdl x Zbz CM-8935-D-5M-3Y-1M-1Y-0M	3.0	10MS	169	12.5	6.2	2956
104	Pato (R)-Cal/7C x Bb-Cno CM-5746-G-3Y-6M-1Y-5M-2Y-0M	3.2	20S	52	5.8	1.8	2823
249	An_E-My 54 x Ti 71 CM-15928-3M-1Y-7M-0Y	3.2	20S	50	7.0	3.4	3013
22	Choli=Pima77 II-21515-1P-1P-3P-5M-0Y	3.3	10S	52,312	6.7	17.8	2669
176	Huacamayo "S" CM-8671-B-5M-3Y-2M-4Y-0M	3.3	5S	261,312	11.8	2.8	3056
214	LFN x Inia-Bb/Cno"S"-No 66 CM-11808-A-3M-1Y-1M-0Y	3.4	15S	171	8.5	6.7	2530
202	Orizaba "S" x Cno"S"-No 66/Kal CM-11377-A-1Y-8M-3Y-0M	3.4	10S	261	6.9	16.3	2713
316	Npo-Cdl x Zbz CM-8935-D-5M-3Y-1M-0Y	3.4	15MS	169	14.6	7.4	2589
116	Pato (8)-Yr"S" CM-7437-5M-1Y-2M-2Y-0M	3.4	40S	115	23.8	8.2	2707
96	Ron-Cha #2 x Bb-Nor 67 CM-5484-F-5Y-4M-1Y-1M-1Y-0M	3.5	40MS-S	115	2.8	9.9	3055
215	(Cno-No 66/Son64-Kl.Rend x Bb)Bb^2-Np 876 CM-11856-A-1Y-2M-1Y-0M	3.7	20S	50	4.7	7.7	2568
273	Npo-Cdl x Zbz CM-8935-D-5M-3Y-3M-0Y	3.7	40MS	115	5.2	14.3	2805
137	Cno-Son x Bb-Inia/Tobx CC-Pato CM-8220-B-6M-1Y-10M-3Y-1M-0Y	3.9	10S	312	2.0	5.3	2594
136	Cno-Son x Bb-Inia/Tob x CC-Pato CM-8220-A-1M-1Y-4M-2Y-1M-0Y	3.9	5S	50	3.9	4.0	2913
34	YDING "S" II-30793-1M-2R-2M-3T-1R-1R-0M	4.0	30S	166	19.7	5.5	3034
112	Orizaba "S"-Yr"S" CM-6540-14M-2Y-3M-1Y-0M	4.0			18.6	10.0	2645
165	Pavon 76 CM 8399-D-4M-3Y-1M-1Y-1M-0Y	4.1	40S	35	2.7	3.6	3307
91	Bluejay "S" CM-5287-J-1Y-2M-1Y-4M-0Y	4.1	50S	166	7.4	25.2	3188
289	VANERN "S" CM-5375-F-1Y-1M-1Y-1M-0Y	4.2	60S	169	14.9	5.6	3006
127	Pichihuila "S" CM-7652-17Y-24M-1Y-0M	4.2	10S	261	2.0	2.6	2636
71	Condor "S"= UQ 105	4.2	30S	9	12.8	12.0	2387
327	Bb-Ska x Cdl CM-10744-16Y-1M-1Y-4M-0Y	4.2	40S	35	3.5	12.2	2350
173	Yr x Son-Genesse /Cno-Chr x No66-ERA CM-8670-B-2Y-9M-1Y-1M-0Y	4.2	40MS-S	115	3,8	7.3	3017
181	LEE-RL 2564 x Fr/Ias 54 BR 8706-13M-1Y-5M-0Y	4.2	10S	312,50,52	26.8	10.3	3219
158	Cno"S"-7C x Cno-Inia/Tob CM-8380-A-1Y-8M-1Y-0M	4.3	20S	35,92,115	9.3	8.3	2987
53	Inia"S"-Az 67/ Inia-Cno"S" x Cal II-40007-4M-5R-0M	4.3	40MS	128	7.2	0.6	2588
255	ZZ-Dzi x Pato -Yr"S" CM-16679-E-4M-2Y-3M-0Y	4.3	30S	312	2.4	13.3	2510
329	Orizaba "S" x Cno"S"-No66/Kal CM 11377-A-1Y-9M-1Y-0M	4.3	40MS	115	6.2	17.0	2906
315	Npo-CDL x Zbz CM-8935-D-5M-3Y-3M-1Y-0M	4.4	10S	52	11.7	6.8	2554
268	Nipigon"S" CM-8972-F-9M-1Y-1M-1Y-0M	4.4	10S	52	4.8	7.9	3288
24	/(Kt54-N10B-21-1C)Kt54-Nar59-Drc)8156-Pj=Goldfinch"S" II-23561-E_1	4.7	20S	52	7.3	9.2	2674

1/ Average CI for Stripe rust was calculated from data from 21 locations as follows: Ethiopia (10), Kenya (14), Tunisia (35), Pakistan 319, India (Delhi 50, Punjab 51, Rajasthan 52), Afghanistan 41, Israel 103, Lebanon 107, Turkey (Izmir 115, Diyarbakir 261), Uruguay 173, Chile 166, Ecuador 169, Perú 171, Colombia 164, Brazil 295, Argentina 312, México (Toluca 129, El Batan 128).

2/ Head infection reported from Ecuador, Perú and Colombia.

3/ See Table 2.

Table 8. Entries with an average reading of less that 3(scale 1-9) to powdery mildew, based on data from Poland, West Germany, Greece, Spain and Iran.

Entry	Cross and Pedigree	Average Score
127	Pichihuila "S" CM-7652-17Y-24M-1Y-0M	1.2
46	(WtE-Nar59 x Se/Soty)Cno-8156 x Tob-Cno II-38830-1Y-4M-2Y-1M-1Y-0M	1.4
115	Az 67-CDL CM-7085-37M-4Y-3M-1Y-1M-0Y	1.6
334	E 6057-Kal^2 7227	1.6
336	E 6524-Kal^2 72241	1.6
44	Y50$_E$-Kal^3 II-35188-5M(F1)-3Y-0M-17M-0Y	1.8
48	No66-Bj 66/Cno-8156 x On II-38866-1Y-1M-3Y-1M-2Y-0M	1.8
96	Ron-Cha x Bb-Nor67 CM-5484-F-5Y-4M-2Y-1M-0Y	1.8
118	Bb-Cal x Pj62 CM-7525-33M-5Y-3M-1Y-0M	1.8
182	Npo-CDL x Zbz CM-8935-D-5M-3Y-3M-2Y-0M	1.8
183	Chiroca "S" CM-8963-A-1M-1Y-1M-1Y-0M	1.8
201	/(21931/Ch53-An x Gb56)An66/CDL CM-11243-28Y-4M-3Y-0M	1.8
241	Cj71-Cpr CM-15070-1M-1Y-1M-0Y	1.8
327	Bb-Ska x Cdl CM-10744-16Y-1M-1Y-4M-0Y	1.8
338	Dougga 74	1.8
98	(Wal/CC-8156 x Cno)7C= Mesabi"S" CM-5513-D-1Y-1M-5Y-1M-1Y-0M	2
113	Az 67-Cdl CM-7085-37M-2Y-3M-1Y-0M	2
179	Osprey "S" CM-8701-A-1M-2Y-1M-3Y-0M	2
186	Chiroca "S" CM-8963-A-1M-1Y-1M-5Y-6M-0Y	2
187	Chiroca "S" CM-8963-A-1M-1Y-1M-5Y-9M-0Y	2
193	Bb-Kal CM-9160-11M-5Y-6M-0Y	2
199	(Tob"S"-Inia"S"/Son64 x Sk$_E^6$-An)Bb4A CM-11177-21Y-2M-1Y-1M-0Y	2
293	Ron-Cha x Bb-Nor67 CM-5484-F-1Y-1M-2Y-1M-0Y	2
301	Ron-Cha CM-6552-16M-1Y-5M-3Y-0M	2
308	Vanern"S" CM-8625-G-1M-4Y-1M-1Y-3M-0Y	2
331	CC-Kal(Az x Nad63-Lr64/Bb) CM-11663-E-1Y-1M-3Y-0M	2
333	HD 1220-Kal^3 72219	2
335	E 6524-Kal^2 72241	2
337	HD 1220-Kal^3 72 L 222	2
16	Zaragoza 75	2.2
24	/(Kt 54-N10B-21-1C) Kt54-Nar 54-Drc/8156-Pj-Goldfinch II-23561-E1	2.2
26	Kal-Bb II-26992-30M-1Y-1M-3Y-0M	2.2
65	Pj-Gb55 x Nai60 Pk 594-80A-1A-0A	2.2
90	Nacozari 76 CM-5287-J-1Y-2M-2Y-3M-0Y	2.2
	Blue Jay"S" CM-5287-J-1Y-2M-1Y-4M-0Y	2.2
107	Bj67-Cal x Tob 8156(R)/7C x Bb-Cno CM-5813-M-2Y-1M-2Y-4M-1Y-0M	2.2
114	Az 67-Cdl CM-7085-37M-3Y-10M-1Y-0M	2.2
172	Vanern"S" CM-8625-G-1M-4Y-1M-0Y	2.2
196	Solsort"S" CM-10712-1Y-1M-6Y-1M-0Y	2.2
198	Kl.Atl/Tob-Cfn x Bb CM-11029-84Y-7M-1Y-2M-0Y	2.2
236	Ktz M12-Ti71 CM-14952-51M-1Y-1M-0Y	2.2

Table 8. Continued

Entry	Cross and Pedigree	Average Score
268	Nipigon"S"	
	CM-8972-F-9M-1Y-1M-1Y-0M	2.2
309	Vanern"S"	
	CM-8625-G-1M-4Y-1M-1Y-4M-0Y	2.2
310	Vanern"S"	
	CM-8625-G-1M-4Y-1M-1Y-2M-0Y	2.2
332	Bobito"S"	
	II-38837-9Y-1M-1Y-2M-2Y-0M	2.2
64	Up 301 x Son64-Pi62	
	JT 35-2L	2.4
70	LEE-RL 2564 x Fr/Ias 54	
	BR-8706-13M-1Y-2M-0Y	2.4
92	Bobolink "S"	
	CM-5349-A-6M-3Y-1M-2Y-0M	2.4
97	Ron-Cha #2 x Bb-Nor67	
	CM-5484-F-5Y-4M-4Y-1M-1Y-0M	2.4
155	Emu"S"	
	CM-8327-C-9M-4Y-3M-0Y	2.4
171	Orizaba"S"-7C/Cno-Chr x Flr-No66	
	CM-8607-R-1M-1Y-4M-1Y-0M	2.4
184	Chiroca "S"	
	CM-8963-A-1M-1Y-1M-4Y-0M	2.4
185	Chiroca "S"	
	CM-8963-A-1M-1Y-1M-3Y-0M	2.4
197	Solsort "S"	
	CM-10712-1Y-1M-7Y-2M-0Y	2.4
218	Kal-S.D.648.5 x Bb-Nor67	
	CM-11874-G-13M-5Y-2M-0Y	2.4
237	Ktz M12-Ti71	
	CM-14952-66M-5Y-2M-0Y	2.4
238	Ktz M12-Ti 71	
	CM-14952-69M-5Y-1M-0Y	2.4
299	Brochis"S"	
	CM-5872-B-8Y-1M-2Y-4M-0Y	2.4
311	(Cno x Son64-Kl.Rend/Ron)Sx	
	CM-8922-H-1M-1Y-3M-1Y-0M	2.4
320	Siete Cerros 66	2.4
12	Pitic 62	2.6
94	Ron-Cha #2 x Bb-Nor67	
	CM-5484-F-5Y-4M-4Y-4M-1Y-0M	2.6
106	Bj 67-Cal x Tob-8156(R)/7C x Bb-Cno	
	CM-5813-M-2Y-1M-2Y-1M-0Y	2.6
126	Pichihuila"S"	
	CM-7652-16Y-501M-0Y	2.6
134	Tito "S"	
	CM-8212-D-4M-5Y-4M-9Y-0M	2.6
170	Orizaba"S"-7C/Cno-Chr x Flr-No66	
	CM-8607-R-1M-7Y-4M-2Y-0M	2.6
178	Osprey "S"	
	CM-8701-A-1M-2Y-1M-0Y	2.6
181	LEE-RL2564 x Fr/Ias 54	
	BR-8706-13M-1Y-5M-0Y	2.6
192	Bb-Kal	
	CM-9160-11M-5Y-5M-2Y-0Y	2.6
194	Tob 66-Cha	
	CM-10583-22Y-9M-1Y-1M-0Y	2.6
216	Maya 74"S" x Nar59-On/Nad63-LR64 x Bb	
	CM-11870-B-3Y-1M-1Y-12M-0Y	2.6
234	Ktz M12-Ti71	
	CM-14952-22M-3Y-0M	2.6
235	Ktz M12-Ti71	
	CM-14952-29M-1Y-11M-0Y	2.6
256	Dzl-Tob66(Nad-LR64 x Bb/Bb-Nor67)	
	CM-16705-A-1M-1Y-6M-0Y	2.6
291	Cal x Bb-Cno/7C	
	CM-5345-D-4Y-3M-2Y-4M-0Y	2.6
298	Brochis"S"	
	CM-5872-B-8Y-1M-2Y-4M-0Y	2.6
329	Orizaba "S" x Cno"S"-No 66/kal	
	CM-11377-A-1Y-9M-1Y-0M	2.6
2	Super X	2.8
47	Bobito"S"	
	II-38837-9Y-1M-1Y-2M-2Y-0M	2.8

Table 8. Continued

Entry	Cross and Pedigree	Average Score
67	S 331-Norteño J 43-ZL	2.8
71	Condor "S"=UQ 105	2.8
93	Vanern"S" CM-5375-F-1Y-1M-1Y-0M	2.8
110	Brochis "S" CM-5872-C-1Y-1M-3Y-0M	2.8
129	Pichihuila"S" CM-7652-35M-4Y-5M-2Y-1M-0Y	2.8
131	Pichihuila"S" CM-7652-35M-1Y-1M-0Y	2.8
135	Tito"S" CM-8212-D-4M-5Y-4M-500Y-500M-0Y	2.8
158	Cno"S"-7C x Cno-Inia/Tob CM-8380-A-1Y-8M-1Y-0M	2.8
166	Pavon"S" CM-8399-D-4M-2Y-2M-3Y-1M-0Y	2.8
189	Bb-Kal CM-9160-11M-4Y-1M-0Y	2.8
190	Bb-Kal CM-9160-11M-5Y-1M-1Y-0Y	2.8
210	Maya 74"S"/kal-Bb x 7C-Nad63 CM 11771-G-3Y-8M-1Y-1M-0Y	2.8
239	Ji/CC x K58N-II44.29 CM-14992-1M-1Y-1M-0Y	2.8
249	An_E-My54 x Ti71 CM-15928-3M-1Y-7M-0Y	2.8
270	Brochis "S" CM-5872-C-1Y-5M-2Y-2M-0Y	2.8
279	Hork"S" CM-8874-K-1M-4Y-1M-1Y-0M	2.8
281	Hork"S" CM-8874-K-1M-1Y-1M-2Y-0M	2.8
312	(Cno^2 x Son64-Kal.Rend/Ron)Sx CM-8922-H-1M-1Y-3M-2Y-0M	2.8
313	Npo-Cdl x Zbz CM-8935-D-5M-3Y-1M-1Y-0M	2.8
319	Cno-7C x Cno-Inia/Sx CM-8943-F-1M-2Y-3M-2Y-1M-0Y	2.8
325	Bb-Kal CM-9160-11M-5Y-4M-1Y-0M	2.8
330	Orizaba "S" x Cno"S"-No66/kal CM-11377-A-1Y-7M-1Y-0M	2.0

Table. 9. Entries with a score of 4 or less to *Septoria tritici* based on 8 locations 1/

Entry	Cross and Pedigree	Score	YIELD Kg/ha
115	Az 67-CDL CM- 7085-37M-4Y-3M-1Y-1M-0Y	2.7	2813
68	DIBO-CTF A-7283-1M-3P-2P-0Y	3.0	2346
76	Sapsucker "S" BR-69-1Y-3M-0Y	3.4	2919
84	Sajame "S" CM-4210-10Y-4M-8Y-5M-1Y-0M	3.4	3014
181	LEE-RL 2564 x Fr/Ias 54 BR-8706-13M-1Y-5M-0Y	3.4	3219
297	Brochis "S" CM-5872-B-8Y-1M-2Y-1M-0Y	3.4	2953
70	LEE-RL 2564 x Fr/Ias 54 BR-8706-13M-1Y-2M-0Y	3.5	3056
151	Moncho"S" CM-8288-A-3M-6Y-5M-3Y-0M	3.5	3317
215	(Cno-No66/Son64-Kl.Rend x Bb) Bb^2-NP876 CM 11856-A-1Y-2M-1Y-0M	3.5	2568
228	(Cno-No66/Son-Kl.Rend x Bb)Maya 74"S" x Inia-Jar CM-12330-K-2Y-5M-2Y-1M-0Y	3.5	2609
298	Brochis "S" CM-5872-B-8Y-1M-2Y-4M-0Y	3.5	2871
364	Chr-S948.A1 x CHR^5 CMH 73-489-5Y-0B	3.5	2650
29	Cuckoo "S" II-28424-8Y-1M-1Y-0M	3.6	3151
86	Sajame "S" CM-4210-10Y-4M-8Y-2M-1Y-0M	3.6	2656
149	Moncho "S" CM-8288-A-3M-6Y-5M-2Y-1M-0Y	3.6	3189
98	(Mal/CC-8156 x Cno)7C *Mesabi"S" CM-5513-D-1Y-1M-5Y-1M-1Y-0M	3.7	2913
150	Moncho "S" CM-8288-A-3M-6Y-1M-1Y-1M-0Y	3.7	3442
197	Solsort"S" CM-10712-1Y-1M-7Y-2M-0Y	3.7	2901
213	Bb-Cno x Inia-Soty (Kal-Bb/Inia-Cal x Inia-CC) CM-11780-J-1Y-2M-1Y-2M-0Y	3.7	2333
299	Brochis"S" CM-5872-C-1Y-5M-1Y-3M-0Y	3.7	2540
324	Bb-Kal CM-9160-11M-5Y-1M-2Y-0M	3.7	2534
12	Pitic 62	3.7	3077
71	Condor "S"	3.9	2387
105	Cno^2-CHR x Tob-8156/Cno-Inia x Bb CM-5811-B-1Y-1M-1Y-3M-1Y-0M	3.9	2850
161	Pavon "S" CM-8399-D-4M-3Y-3M-0Y	3.9	3499
170	(Cno-7C x CC-Tob/7C) Cno-C hr x Flr-No66 CM-8607-R-1M-7Y-4M-1Y-0M	3.9	2828
200	Alondra "S" CM-11683-A-1Y-1M-2Y-3M-0Y	3.9	2995
216	Maya 74"S" x Nar59-On/Nad 63-LR64 x Bb CM-11870-B-3Y-1M-1Y-12M-0Y	3.9	2710
245	(Bb-Gallo/Cno-Son64 x Bb) Pato (B)*Pollo"S"-Pato(B) CM-15818-19M-2Y-3M-0Y	3.9	2604
262	Pato-Tob66 CM-16860-23M-1Y-11M-0Y	3.9	2758
323	Hork"S" CM-8874-K-1M-3Y-1M-1Y-0M	3.9	2644
7	Anza	4.0	3080
16	Zaragoza 75	4.0	2712
141	Moncho "S" CM-8288-A-3M-1Y-13M-0Y	4.0	3114
166	Pavon "S" CM-8399-D-4M-2Y-2M-3Y-1M-0Y	4.0	3213
27	Kal-Bb II-26992-30M-300Y-300M-501Y-500M-0Y	4.0	3172
171	(Cno-7C x CC-Tob/7C)Cno-Chr x Flr-No66 CM-8607-R-1M-1Y-4M-1Y-0M	4.0	2751
195	(Son64 x SKE-AnE/MyE-AnE)Tob-Cfn x Bb CM-10632-1Y-1M-1Y-1M-0Y	4.0	2813
203	Cno-7C x Nor67/Cal-Cno CM-11552-C-3Y-2M-1Y-7M-0Y	4.0	2841
235	Ktz M12-Ti71 CM-14952-29M-1Y-11M-0Y	4.0	2530
249	An_E-My54 x Ti 71 CM-15928-3M-1Y-7M-0Y	4.0	3013
254	IAS-Ws 1812 (Cha/Tob-Cfn x Bb) CM-16634-D-1M-1Y-10M-0Y	4.0	2823

1/ See table 1