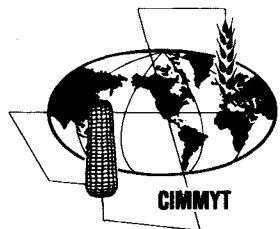




# Results of the Twelfth International Septoria Observation Nursery (ISEPTON) 1981-82



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CENTRO INTERNACIONAL DE MEJORAMIENTO DE MAIZ Y TRIGO  
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**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 (échelle 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)	Rayée bacterienne (échelle 0-9)
BACT B	Bacterial blight (0-9 scale)	Tizón bacteriano (escala 0-9)	Tache bacterienne (échelle 0-9)
BARL S	Barley stripe (0-9 scale)	Rayado de la cebada (escala 0-9)	Moucheture de l'orge (échelle 0-9)
BIRD DMGE	Bird damage percentage	Porcentaje de daño de pájaros	Dégâts dus aux oiseaux en pourcentage
BYD	Barley yellow dwarf (0-9 scale)	Enanismo amarillo de la cebada (escala 0-9)	Virose jaune de l'orge (échelle 0-9)
CHECK MARK	Check mark	Marca	Signal
COVD SMUT	Covered smut percentage	Porcentaje de carbón cubierto	Charbon couvert en pourcentage
EARS/M <sup>2</sup>	Ears per square meter	Espigas o mazorcas por metro cuadrado	Epis par mètre <sup>2</sup>
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activité du : amylase (en secondes)
FERT %	Fertility percentage	Porcentaje de fertilidad	Fertilité en pourcentage
FLOW DAYS	Number days to flower	Días a floración	Nombre de jours a la floraison
FRST DMGE	Frost damage percentage	Porcentaje de daño por heladas	Dégâts par la gelée en pourcentage
FUS N	Fusarium nivale (0-9 scale)	Moho néveo (escala 0-9)	Moississure de la neige (échelle 0-9)
FUS NIV	Fusarium nivale spot	Mancha foliar (Fusarium nivale)	Tache de la feuille (Fusarium nivale)
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 dus à la grêle en pourcentage
HELM	Helminthosporium (0-9 scale)	Helminthosporium (escala 0-9)	Helminthosporium (échelle 0-9)
HELM TERES	Leaf spot Helminthosporium teres	Mancha foliar (Helminthosporium teres)	Tache de la feuille (Helminthosporium teres)
KERN APP	Kernel appearance	Apariencia del grano	Apparence du grain
LEAF FIRE	Leaf fire (0-9 scale)	Tizón foliar (escala 0-9)	Sécheresse des feuilles (échelle 0-9)
LEAF RUST	Leaf rust (Cobb scale)	Roya de la hoja (escala de Cobb)	Rouille brune (échelle de Cobb)
LEAF RUST/P. HORDEI	Barley leaf rust (Puccinia hordei)	Roya de la hoja (cebada)	Rouille brune de l'orge
LODG %	Lodging percentage	Porcentaje de acame	Versé 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 à la maturation
MST %	Moisture percentage	Porcentaje de humedad	Humidité 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 (échelle 0-9)
PHYR TRIT	Pyrenophora tritici-repentis leaf spot	Mancha foliar (Pyrenophora tritici-repentis)	Tache de la feuille (Pyrenophora tritici-repentis)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (tiges/mètre <sup>2</sup> )
PLNT HT	Height (cm)	Altura (cm)	Hauteur (cm)
PLNT WT	Plant weight (grams)	Peso de la planta (gramos)	Poids de la plante (grames)
POWD	Powdery mildew (0-9 scale)	Mildió polvoriento (escala 0-9)	Oidium (échelle 0-9)
PROT %	Protein percentage	Porcentaje de proteína	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Putréfaction du maïs en pourcentage
SCAB %	Scab percentage	Porcentaje de roña	Fusarium de l'épi en pourcentage
SCLD	Scald (0-9 scale)	Porcentaje de escaldadura (escala 0-9)	Rhynchosporium (échelle 0-9)
SDMT INDX	Sedimentation index (cc)	Índice 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 (échelle 0-9)
SEPT SPP.	Septoria spp. (0-9 scale)	Septoria spp. (escala 0-9)	Septoria spp. (échelle 0-9)
SEPT TRIT	Septoria tritici (0-9 scale)	Septoria tritici (escala 0-9)	Septoria tritici (échelle 0-9)
SHTR HEAD	Shattering head (%)	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 feuille (échelle 0-9)
SPOT BLOTCH/HELM SATV	Spot blotch (0-9 scale)	Tizón de la hoja (escala 0-9)	Tache de la feuille (échelle 0-9)
STEM RUST	Stem rust (Cobb scale)	Roya del tallo (escala de Cobb)	Rouille noire (échelle de Cobb)
STRP RT.H	Stripe rust (head) percentage	Porcentaje de roya lineal (espiga)	Rouille jaune sur l'épi en pourcentage
STRP RT. L	Stripe rust (leaf) (Cobb scale)	Roya lineal (hoja) (escala de Cobb)	Rouille jaune sur feuilles (échelle de Cobb)
TAN S	Tan spot (0-9 scale)	Mancha de cobre (escala 0-9)	Tache de cuivre (échelle 0-9)
TEST WT	Test weight (kg/hi)	Peso hectolítrico (kg/hi)	Poids spécifique (kg/hi)
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

## International Septoria Observation Nursery (ISEPTON)

### PREFACE

Breeding for disease resistance has been a consistently high priority objective in CIMMYT's Wheat Program. Once adequate resistance was obtained for such top-ranking diseases as stem rust, other diseases moved to the forefront. In the 1960s, the recognition of leaf blotching diseases caused by *Septoria tritici* and *S. nodorum* as significant constraints to wheat yields led to greater attention to breeding for Septoria resistance.

By 1969, a suitable site for the initial screening of non-segregating CIMMYT nurseries, as well as lines supplied by cooperating scientists, had been identified near Pátzcuaro Lake, Mexico. However, a thorough evaluation of these preliminary selections called for international cooperation. Thus, in the fall of 1970 the First International Septoria Nursery was packaged and distributed from Toluca to selected cooperators located in areas where Septoria epidemics were known to occur frequently.

Beginning with its second distribution in 1971, the name of the nursery was changed to the ISEPTON, the acronym for International Septoria Observation Nursery. In the current scheme, individual plants or entire lines are selected in Pátzcuaro for having expressed superior potential for resistance to *Septoria*, and then planted immediately in the Yaqui Valley for seed increase and the evaluation of plant type and rust resistance under optimal environmental conditions. Only those lines with acceptable all-around performance are included in the ISEPTON. Nearly all ISEPTON lines are bread wheats, because local *Septoria* populations do not exert sufficient selection pressure on durum wheats.

Over the years, a growing interest among those working with *Septoria* diseases has resulted in improvements in the scale used to assess disease severity. The scale currently in use ranges from 0 to 9 and measures the upward progress of infection (0 = no infection; 1-4 = increasingly upward infection but restricted to the lower half of the plants; 5 = infection reaching but not exceeding mid-height of the plants; 6-8 = increasingly upward infection in the upper half of plants; 9 = infection reaching the flag leaves and heads). At present these data are converted to percentage figures for analysis and publication.

The main objective of the ISEPTON continues to be the assessment of each entry for its reaction to *S. tritici*. Similar evaluation for *S. nodorum*, rusts or other pathogens is very useful, and cooperators are encouraged to record and report reactions to other diseases whenever they occur.

The ISEPTON are used now as sources of *Septoria* resistance in various wheat breeding programs (e.g., Australia and the US) and may cycle back to CIMMYT's own crossing block. In fact, Pátzcuaro selections are used frequently as parent material in Mexico; twenty-three Pátzcuaro selections were included in the bread wheat crossing block Y 80-81 and 82 were included in the MV-81.

An additional bonus from the ISEPTON has been the finding that the nursery as a whole performs very well under the humid and acid soil conditions so common in parts of South America and in East and Central Africa. This is not surprising, however, since this environment is typical of the screening site at Pátzcuaro. As with other wheat international nurseries, any cooperating country is free to use CIMMYT-derived material included in the ISEPTON either as progenitors or as commercial varieties.

After 12 years of observations and analysis, we feel confident that the ISEPTON is an adequate tool for the identification of sources of resistance to *Septoria* spp. This report is the second issue of a series that presents the most salient features of ISEPTON's yearly data.

# RESULTS OF THE 12TH INTERNATIONAL SEPTORIA OBSERVATION NURSERY

## (ISEPTON) 1981-82

The 12th International Septoria Observation Nursery (ISEPTON) was sent in September 1981 to be grown by cooperators in their spring season of 1982. Sixty nurseries went to cooperators in 42 countries. The 180 advanced lines and checks in the nursery had been chosen from among CIMMYT's best materials. All had been grown and observed by CIMMYT scientists under a high yield environment with pressure from major diseases on the CIANO Experiment Station in the Yaqui Valley in northwest Mexico. Here, too, seed for this international nursery was multiplied, cleaned and treated with insecticide and organic fungicide before shipment.

Instructions on nursery management accompanied the mailing of seeds of each cooperator. Enough seed from each line was provided for a single row, unreplicated, of at least 2 m. in length. A field book was included with each nursery set, providing a standard format for recording data desired by CIMMYT. In receiving and processing the data returned by cooperators, CIMMYT assumes that the nursery was properly handled and that accurate results were reported. We cannot, however, attest to the rigor with which the trials were grown and results were obtained.

Fifteen of the cooperators receiving the 12th ISEPTON returned field books with performance data at their locations in time to be included in this report. The choice of variables measured and the data returned rests with the individual cooperator. We have included in this summary all measures of all variables reported to us. The number of observations differs from variable to variable. The reader is urged to note the "NOBS" entry at the head of each variable column in the table that reports all data for all lines—that tells how many observations went into the data reported in that column, which may be an important indicator of the level of credibility that should be conferred. The reader should also bear in mind that the yield reported is from a single plot, essentially grown for observation rather than as a rigorous, replicated yield trial.

### Presentation of Results

So that data in this report will be of optimal use to the reader, we present the results in three forms:

1. One *international summary*, listing the sites from which data were returned, with notations of all variables recorded and reported.
2. A table reporting the *mean of all observations* for each variable measured for each line in the nursery.
3. Selected tables reporting the *best performance by individual lines* on major variables, usually the top 5 to 10 percent. The table of contents lists all variables reported in this way.

Cooperators were asked to use agronomic and disease reporting methodology as described in CIMMYT's Information Bulletin 38. Data reported are simple means computed from those supplied by the cooperators. Data on rusts recorded by the modified Cobb scale were converted to average coefficient of infection (ACI) as explained in the yearly report of the United States Department of Agriculture International Spring Wheat Rust Nursery.

### Feedback

Feedback of two kinds from cooperators is vital to the quality of this and other CIMMYT international nursery reports: First, the prompt return of carefully recorded data from each and every trial site; second, identification of errors that become part of our cooperator's station file. We ask for feedback of both kinds.

## Some Special Information

### Disease scoring

Disease scores for stem, leaf and stripe rust infections recorded in the manner recommended by Dr. W.Q. Loegering (USDA International Spring Wheat Rust Nursery, 1959) are converted to a numeric coefficient of infection (CI) prior to being used in any calculations. Each original reading recorded in this manner consists of a severity (percentage of rust infection on the plants) and response (kind of infection). The severity is recorded as percent of infection according to the modified Cobb scale. If only a trace is visible, T or TR may be reported and is given the value of 1 percent.

Responses may be recorded by using one of the following codes. The numeric values assigned to these codes are shown at the right.

Response	Equivalent Numeric Value
VR	2
R	2
MR	.4
M or X	.6
MS	.8
S	1.0
VS	1.0

Severity and response are recorded together, with severity first (for example, 5MR). The equivalent coefficient of infection is calculated by multiplying the numeric equivalents of each part. For example:

Disease Score	Coefficient of Infection
5MR	$5(0.4) = 2.0$
TR	$1(0.2) = 0.2$
TRR	$1(0.2) = 0.2$
60S	$60(1.0) = 60.0$
0*	$(0)(0) = 0.0$

\* If there is no visible infection on the plant, only a zero is reported.

Reactions may be more variable than can be represented by a single severity and response. This variability may be recorded in two ways: (1) A comma or slash indicates plants have segregated into clear-cut classes. The first rating reported is included in the computations. (2) If a range of reaction is recorded, it is denoted by a dash. In these cases the coefficient of infection is the average of the two scores. Examples of these situations are given below:

Disease Score	Coefficient of Infection
5R,40S	The first rating $5R = 5(0.2) = 1.0$ is used in all computations
40M/60S	The first rating $40M = 40(0.6) = 24.0$ is used in all computations
15R-5S	$[15(0.2) + 5(1.0)] / 2 = 4.0$

A range may be reported for severity only or response only. In each of these cases the average severity or average response is calculated before multiplying the two together. For example:

<b>Disease Score</b>	<b>Coefficient of Infection</b>
10-20MS	$[(10 + 20)/2] (0.8) = 12.0$
40MR-MS	$40[(0.4 + 0.8)/2] = 24.0$
5-10MR-R	$[(5 + 10)/2][(0.4 + 0.2)/2] = 2.25$

In most tables only average coefficients of infection (AVE.CI) are reported. However, in some tables the highest rust readings (HR) are reported as severity/response scores.



**Table 1. Locations from which data were reported, with variables reported**

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
74	EUROPE	GREECE	THESSALONIKI	3 8 9 61
84	EUROPE	PORTUGAL	ALENTEJO	3 4 5 8 9 50
99	MIDDLE EAST	IRAN	GORGAN	3 4 5 9
148	NORTH AMERICA	U. S. A.	MONTANA	5 8 9 64
154	SOUTH AMERICA	ARGENTINA	BUENOS AIRES	5 7 8 64
162	SOUTH AMERICA	BRAZIL	RIO GRANDE DO SUL	63
164	SOUTH AMERICA	COLOMBIA	CUNDINAMARCA	5 6 64
166	SOUTH AMERICA	CHILE	CHILLAN, NUBLE	5 64
169	SOUTH AMERICA	ECUADOR	QUITO, PICHINCHA	5 7
308	EUROPE	IRELAND	KILDARE	3 9 64
310	EUROPE	SPAIN	CADIZ	3 9 50 62
328	NORTH AMERICA	MEXICO	HICHOACAN	62
350	SOUTH AMERICA	PARAGUAY	CACUPE	7 8
363	MIDDLE EAST	SYRIA	ALEPPO	3 25 50
370	EUROPE	FINLAND	HYRLA	9 61
372	ASIA	INDIA	WEST BENGAL	4 7 8 9 64 80
421	AFRICA	TANZANIA	IRINGA	1 50 64
426	SOUTH AMERICA	BRAZIL	PARANA	4 36 50 70
428	NORTH AMERICA	CANADA	ONTARIO	9 61
456	NORTH AMERICA	U. S. A.	TEXAS	7 61 63
474	AFRICA	KENYA	RIFT VALLEY	50 62
477	EUROPE	NORWAY		1 3 4 9 13
481	EUROPE	SWEDEN		64
487	AFRICA	ETHIOPIA	SHEWA, AMBO	3 4 5 7 62 70
495	SOUTH AMERICA	CHILE		64
501	EUROPE	ITALY		64
504	EUROPE	FRANCE	TARN	3 9 64
537	AFRICA	SOUTH AFRICA	CAPE PROV.	50

\*VARIABLE IDENTIFICATIONS

1	YIELD	KG/HA	3	FLOW	DAYS	4	MAT	DAYS	5	STRP	RT. L	6	STRP	RT. H
7	LEAF	RUST	8	STEM	RUST	9	PLNT	HT	13	1000	Q. W.	25	FRST	DMGE
36	SCAB	%	50	CHECK	MARK	61	POW M	0-9	62	SEP T	0-9	63	SEP N	0-9
64	SEP S	0-9	70	HEL S	0-9	80	L FIR	0-9						

VTY	PLNT HT	1000 G. W.	FRST DNGE	SCAB %	CHECK MARK	POW H 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	HEL S 0-9	L FIR 0-9
	( 11)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
113	90.8	42.6	75.0	-----	14.3	0.7	7.0	7.0	5.1	0.0	6.0
23	80.5	41.1	50.0	20.0	28.6	1.0	6.0	6.0	3.9	3.0	7.0
27	86.0	46.7	50.0	20.0	28.6	0.3	5.7	7.0	3.6	3.0	6.0
98	91.3	44.4	88.0	20.0	14.3	2.7	6.3	7.5	5.1	1.0	5.0
91	79.4	47.1	63.0	-----	14.3	3.7	6.0	3.5	5.1	0.0	3.0
93	77.9	45.0	63.0	-----	0.0	3.7	6.3	7.0	5.4	0.0	5.0
25	88.9	45.1	63.0	-----	0.0	0.3	5.3	6.5	3.3	0.0	7.0
26	84.3	45.2	75.0	-----	28.6	1.3	4.0	5.0	4.0	7.0	7.0
94	77.4	47.7	75.0	-----	0.0	3.7	7.0	7.0	5.3	0.0	3.0
74	86.8	51.6	63.0	-----	0.0	3.3	7.3	7.0	5.6	0.0	6.0
70	94.5	58.3	75.0	-----	14.3	5.0	7.3	8.0	5.3	0.0	7.0
61	83.2	48.8	75.0	-----	0.0	3.7	5.7	7.5	4.8	0.0	6.0
92	77.9	56.6	63.0	-----	28.6	1.0	4.7	7.0	5.0	0.0	6.0
78	83.2	48.3	63.0	-----	14.3	1.3	5.3	7.5	5.6	0.0	6.0
165	95.2	42.8	63.0	20.0	28.6	0.3	4.0	6.0	4.3	1.0	5.0
87	95.3	51.4	63.0	20.0	28.6	2.3	5.7	6.0	4.4	5.5	5.0
96	84.1	51.8	75.0	-----	28.6	2.7	6.3	5.0	5.2	0.0	5.0
116	76.2	51.3	63.0	-----	14.3	1.3	5.7	8.0	5.5	0.0	6.0
43	93.1	50.2	75.0	20.0	42.9	3.3	4.7	8.0	4.5	3.0	6.0
77	84.5	46.9	63.0	-----	42.9	0.3	5.7	7.0	5.7	0.0	7.0
90	79.3	45.2	63.0	-----	14.3	3.3	6.0	7.5	5.2	0.0	3.0
101	76.9	50.3	63.0	-----	14.3	1.7	3.7	7.5	4.1	0.0	5.0
108	90.3	53.9	75.0	20.0	57.1	4.5	4.0	7.0	4.6	1.0	6.0
22	86.4	43.1	88.0	20.0	57.1	2.7	4.0	6.5	4.6	3.0	6.0

VTY	PLNT HT	1000 Q. W.	FRST DMGE	SCAB %	CHECK MARK	POW M 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	HEL S 0-9	L FIR 0-9
	( 11)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
113	90.8	42.6	75.0	-----	14.3	0.7	7.0	7.0	5.1	0.0	6.0
23	80.5	41.1	50.0	20.0	28.6	1.0	6.0	6.0	3.9	3.0	7.0
27	86.0	46.7	50.0	20.0	28.6	0.3	5.7	7.0	3.6	3.0	6.0
98	91.3	44.4	88.0	20.0	14.3	2.7	6.3	7.5	5.1	1.0	5.0
91	79.4	47.1	63.0	-----	14.3	3.7	6.0	3.5	5.1	0.0	3.0
93	77.9	45.0	63.0	-----	0.0	3.7	6.3	7.0	5.4	0.0	5.0
25	88.9	45.1	63.0	-----	0.0	0.3	5.3	6.5	3.3	0.0	7.0
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165	95.2	42.8	63.0	20.0	28.6	0.3	4.0	6.0	4.3	1.0	5.0
87	95.3	51.4	63.0	20.0	28.6	2.3	5.7	6.0	4.4	5.5	5.0
96	84.1	51.8	75.0	-----	28.6	2.7	6.3	5.0	5.2	0.0	5.0
116	76.2	51.3	63.0	-----	14.3	1.3	5.7	8.0	5.5	0.0	6.0
43	93.1	50.2	75.0	20.0	42.9	3.3	4.7	8.0	4.5	3.0	6.0
77	84.5	46.9	63.0	-----	42.9	0.3	5.7	7.0	5.7	0.0	7.0
90	79.3	45.2	63.0	-----	14.3	3.3	6.0	7.5	5.2	0.0	3.0
101	76.9	50.3	63.0	-----	14.3	1.7	3.7	7.5	4.1	0.0	5.0
108	90.3	53.9	75.0	20.0	57.1	4.5	4.0	7.0	4.6	1.0	6.0
22	86.4	43.1	88.0	20.0	57.1	2.7	4.0	6.5	4.6	3.0	6.0

Table 2 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD	FLOW	MAT	STRP	STRP	LEAF	STEM	
				KG/HA	DAYS	DAYS	RT. L	RT. H	RUST	RUST	
				NOBS:	( 2)	( 9)	( 6)	( 8)	( 1)	( 6)	( 6)
106	KVZ/INIA"S"-ON X INIA-BB BHM2893-2J-2J-300J-2Y-3B-0Y-1PTZ- OY			4633.0	110.9	126.3	4.5	0.0	22.0	20.0	
104	KVZ/INIA"S"-ON X INIA-BB BHM2893-2J-2J-300J-1Y-1B-0Y-1PTZ- OY			4633.0	110.4	125.0	3.6	0.0	10.4	16.7	
121	IAS202-H567.71 X ALONDRA/H570.71- ERA(2) X IAS38 CMH77A.277-11B-2Y-1B-2Y-2PTZ-0Y			4622.0	110.0	139.8	1.7	0.0	0.1	17.1	
125	PEL. ART-HE.1 CMH7B.363-1Y-1B-1Y-1PTZ-0Y			4555.0	111.0	124.6	40.4	5.0	15.8	25.9	
24	BOSWHITE"S" CM33203-K-9M-19Y-3M-3Y-2M-1Y-0M- 1PTZ-0Y			4511.0	112.8	143.2	1.7	0.0	5.6	2.2	
62	CHL-BJY"S"(KAL-BB(V09144/VIL.29 X II.50.1B-V0DH)) CM44164-E-1Y-2M-1Y-3M-3Y-1M-0Y- 1PTZ-0Y			4488.0	111.6	137.0	23.8	0.0	21.0	28.3	
95	KVZ-JB216.67-BISKIN"S" CM33030-D-3M-2Y-1M-4Y-3M-1Y-0M			4488.0	110.0	129.8	2.3	0.0	16.0	2.2	
148	LEE-RL2564 X FR/IAB54 MATERIALS FROM AUSSEN I-II-III			4475.5	114.7	131.4	26.0	0.0	16.0	16.7	
156	C.3228/65 MATERIALS FROM AUSSEN I-II-III			4455.0	114.1	128.8	40.3	50.0	18.0	3.8	
42	BCH"S" X KAL-BB(BB-CNO(LR64/S0N64 X BKE-ANE)CNOJHOK"S") CM38559-A-2Y-2M-1Y-3M-0Y-2PTZ-0Y			4418.5	110.3	125.0	10.4	0.0	1.1	16.2	
144	ETHIOPIA S.16 -1PTZ-0Y			4413.0	112.1	129.0	19.1	0.0	19.0	7.2	
37	VULTURE"S" CM36064-A-1M-1Y-0M-1PTZ-0Y			4411.0	108.6	125.5	17.7	0.0	0.1	19.0	
132	IAS20-H567.71 X IAS204 CMH7B.409-3Y-10B-1Y-1PTZ-0Y			4378.5	111.0	125.8	28.6	30.0	1.2	36.8	
140	CEP.7780(CHECK)			4336.5	107.7	124.5	24.3	30.0	0.1	26.7	
88	CEBECO1481/RON-CHA X BB-NDR67(CHK- 38MA(4777/REI X Y-KT)JYR-TUCAN"S") CM33682-L-1Y-1Y-8M-1Y-100B-0Y			4299.0	112.2	131.0	4.5	0.0	24.0	20.1	
107	KVZ-7C BMM4064-6Y-4M-3Y-1M-1Y-3M-0Y- OPTZ-0Y-OPTZ			4277.0	110.7	127.3	1.9	0.0	4.8	2.2	
146	MJI-P69.75 X B.NAMUNCURA P1695-300J-1Y-1B-0Y-OPTZ-0Y			4255.5	110.2	130.2	4.7	0.0	1.1	2.5	
63	NACQZARI-AZTECA CM46746-34M-1Y-2M-3Y-0Y-2PTZ-0Y			4222.0	106.9	139.8	7.7	0.0	17.2	27.3	
150	COTIPORA MATERIALS FROM AUSSEN I-II-III			4211.0	108.2	125.5	59.7	100.0	28.0	36.7	
161	MR.740.42 = BX-PF111001.62 -1PTZ-0Y			4199.5	112.7	131.0	73.6	100.0	26.0	2.3	
199	CNT.9			4188.0	110.9	126.5	56.9	70.0	10.0	11.8	
73	C22-TDRIM 73 CM36834-25Y-2M-2Y-1M-0Y			4133.0	104.3	138.6	15.2	10.0	11.4	6.2	
166	PEL.72380-ART71 B13374-0A-0L-106T-2PTZ-0Y			4124.0	108.3	124.5	26.2	100.0	24.0	4.5	
48	CAL X WREN-WS1657/ANAHUAC"S" CM43065-9Y-4M-1Y-2M-2Y-1M-0Y- 1PTZ-0Y			4106.0	108.0	127.6	5.7	0.0	0.5	2.2	
79	S12-BB X PJ62/PAVDN"S" CM40597-7M-2Y-3M-1Y-0M			4070.0	109.4	124.5	10.8	0.0	26.0	20.4	
142	NS.13-09 = GABO 56-BKA2 MATERIALS FROM AUSSEN I-II			4066.0	111.7	129.7	29.0	0.0	23.2	21.3	

VTY	PLNT HT	1000 G. W.	FRST DNAGE	SCAB %	CHECK MARK	POM N 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	HEL S 0-9	L FIR 0-9
	( 11)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
106	106.2	47.8	38.0	----	28.6	4.0	6.0	7.0	4.7	0.0	6.0
104	106.5	47.2	38.0	20.0	28.6	3.3	6.0	7.0	5.4	4.5	5.0
121	83.5	43.8	63.0	20.0	14.3	0.3	4.7	8.0	5.0	2.0	7.0
125	75.5	45.6	50.0	20.0	28.6	2.7	5.7	6.5	5.5	2.0	7.0
24	84.7	44.0	38.0	----	14.3	1.0	6.0	7.0	4.3	0.0	7.0
62	82.8	49.5	63.0	20.0	14.3	3.7	5.3	7.5	5.0	3.0	6.0
95	79.5	44.1	75.0	----	0.0	3.7	6.0	7.0	5.3	0.0	3.0
148	94.8	45.8	13.0	20.0	42.9	4.0	5.7	6.5	4.2	1.0	6.0
156	128.3	45.0	38.0	----	0.0	4.3	4.0	2.0	4.3	0.0	6.0
42	93.0	53.7	38.0	----	28.6	5.5	4.0	8.0	4.5	0.0	6.0
144	84.6	53.9	38.0	20.0	28.6	3.3	6.3	7.0	4.2	1.0	6.0
37	64.5	46.7	25.0	----	14.3	4.0	7.0	6.0	5.5	0.0	6.0
132	100.6	46.5	50.0	----	28.6	3.3	3.3	6.0	4.1	0.0	6.0
140	104.1	44.0	63.0	----	0.0	0.7	6.3	6.5	5.1	0.0	6.0
88	75.3	55.9	63.0	----	28.6	1.0	5.7	7.0	4.4	0.0	6.0
107	101.3	54.8	38.0	----	14.3	3.7	4.3	6.0	4.5	0.0	7.0
146	86.1	62.5	75.0	20.0	28.6	5.7	4.0	7.0	5.2	1.0	5.0
63	92.3	48.8	63.0	----	14.3	3.3	4.7	6.5	4.6	0.0	6.0
150	117.1	50.4	25.0	----	0.0	4.0	5.7	2.5	4.6	0.0	5.0
161	104.8	47.2	38.0	----	0.0	3.7	4.7	7.0	4.2	7.0	6.0
159	112.2	47.8	38.0	----	0.0	5.5	5.7	3.5	5.4	0.0	6.0
73	86.3	56.1	75.0	----	14.3	2.8	7.3	7.0	5.4	0.0	6.0
166	96.0	43.4	75.0	20.0	14.3	0.3	3.3	6.0	4.5	1.0	5.0
48	88.1	52.7	88.0	20.0	42.9	5.0	5.7	7.0	5.3	2.0	6.0
79	77.1	53.0	63.0	----	14.3	4.3	5.0	7.5	6.1	0.0	7.0
142	74.4	50.1	63.0	----	0.0	2.7	5.0	5.0	5.1	0.0	6.0

Table 2 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	STRP RT. H	LEAF RUST	STEM RUST
				NOBB: ( 2)	( 9)	( 6)	( 8)	( 1)	( 6)	( 6)
75	C22-TORIM 73 CM36834-25Y-3M-3Y-2M-0Y			4055.0	107.6	125.5	9.9	5.0	22.0	20.1
44	NEELKANT"S" CM40454-11M-4Y-2M-1Y-0M-1PTZ-0Y			4002.5	112.9	141.5	7.4	0.0	27.0	20.1
41	JUP"S"-ZOPILOTE X CDCORAGUE"S" CM37614-8-14Y-4M-1Y-0M-OPTZ-0Y			3977.0	109.0	128.0	3.1	0.0	0.0	2.2
64	CAR853-CDCORAGUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-1PTZ-0Y			3955.0	111.0	130.0	1.8	0.0	0.0	2.3
71	MONCHO. S. -ZARAGOZA73 CM36714-46M-2Y-2M-0Y			3952.5	109.2	125.5	11.6	0.0	10.0	2.2
29	SUNBIRD"S" CM34630-D-1M-9Y-6M-2Y-1M-0Y-1PTZ-0Y			3948.0	117.6	133.7	17.2	0.0	19.7	20.0
81	CD-GOLDFINCH"S" X PAVON"S" CM40607-3M-1Y-1M-1Y-0M			3944.0	110.1	124.2	7.6	0.0	24.0	2.0
28	SOBWHITE"S" CM33203-N-1M-1Y-1M-1Y-0M-74Y-0B-1PTZ-0Y			3927.5	111.7	130.3	2.2	0.0	2.6	20.0
117	PEL. ART-H567. 71 CMH77A. 260-2B-1Y-7B-1Y-1PTZ-0Y			3901.5	107.3	123.5	10.4	0.0	0.0	33.3
68	CLP-MON"S"CYR(MPLM X CND"S"-7C/CC)) CM48984-B-1M-1Y-2M-1Y-0Y-1PTZ-0Y			3888.0	112.0	129.0	16.6	0.0	28.2	20.4
32	SUNBIRD"S" CM34630-D-5M-3Y-3M-1Y-0M-3PTZ-0Y			3866.5	114.2	146.6	1.6	0.0	0.0	20.0
89	(KVZ/TOB-CFN X BB)BOLILLO"S" CM33028-I-1M-3Y-1M-1Y-1M-0Y			3855.0	114.5	132.0	6.5	0.0	14.8	2.2
18	VEERY"S" CM33027-F-15M-4Y-4M-2Y-1M-1Y-0M-2PTZ-0Y			3837.0	111.9	128.0	7.3	0.0	28.1	20.1
137	TORIM73-PEL. ART CMH76A. 947-1B-1Y-2F-0Y-4B-1Y-1PTZ-0Y			3833.0	104.0	125.0	36.4	5.0	10.3	20.0
110	F3. 71-TORIM BHM5704-10Y-1M-3Y-3M-2Y-3M-0Y-1PTZ-0Y			3833.0	109.8	126.0	20.0	0.0	1.7	16.7
102	TRIFON"S" F4-3Y-0M-2Y-0Y-1PTZ-0Y-1PTZ-0Y			3811.0	113.4	125.8	3.0	0.0	0.8	17.7
131	IAS20-H567. 71 X IAS204 CMH7B. 409-3Y-7B-1Y-3PTZ-0Y			3799.0	111.6	126.3	27.0	30.0	0.3	30.2
55	JUP-MUS"S"(CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-6Y-4M-1Y-0B-1PTZT-0Y			3799.0	109.4	128.6	7.3	0.0	15.0	20.0
111	F3. 71-TORIM BHM5704-10Y-1M-3Y-3M-3Y-0B-1PTZ-0Y			3788.0	109.1	125.8	1.7	0.0	3.6	17.4
20	CEP. 7780			3776.5	107.2	124.0	29.3	10.0	0.7	20.0
72	SPARROW"S"((BB X SON-KL. REND/CHA) GB(K)) CM32516-31M-2Y-4M-0Y			3722.0	110.0	126.8	7.4	0.0	18.0	16.7
180	PAT. 73121(CHECK)			3720.0	119.8	130.3	41.7	-----	1.7	3.9
123	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-3B-3Y-2PTZ-0Y			3711.0	110.4	140.4	3.9	0.0	0.1	16.8
65	CAR853-CDCORAGUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-2PTZ-0Y			3688.0	112.1	130.8	1.6	0.0	0.0	20.0
47	AZTECA-PAVON"S" CM42398-72M-1Y-2M-1Y-0Y-OPTZ-0Y			3685.0	108.8	127.0	13.8	5.0	11.8	3.2
7	BUCK BUCK"S" CM31678-R-4Y-2M-300Y-507M-0Y-1PTZ-0Y-1PTZ-0Y			3659.0	111.7	142.4	6.4	0.0	7.6	2.2

VTY	PLNT HT	1000 G. W.	FRST DMGE	SCAB %	CHECK MARK	POM H 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	HEL S 0-9	L FIR 0-9
	( 11)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
75	87.0	51.8	75.0	-----	0.0	3.3	6.7	7.5	5.1	0.0	6.0
44	89.5	56.8	38.0	20.0	57.1	3.0	4.0	8.0	5.0	2.0	6.0
41	84.5	56.4	75.0	-----	0.0	2.3	4.0	8.0	4.2	0.0	6.0
64	85.0	46.2	75.0	-----	14.3	0.3	5.0	5.0	4.2	0.0	5.0
71	89.0	53.3	63.0	-----	14.3	4.0	7.0	7.5	4.6	0.0	7.0
29	75.8	-----	63.0	-----	0.0	3.0	5.5	7.0	5.5	7.0	5.0
81	84.7	48.6	75.0	20.0	28.6	4.0	5.0	7.0	4.6	1.0	6.0
28	87.8	45.7	50.0	-----	0.0	3.0	4.7	4.0	4.1	0.0	6.0
117	85.2	44.4	75.0	-----	0.0	3.7	6.0	8.0	5.3	5.0	5.0
68	95.6	58.8	75.0	-----	0.0	5.0	6.0	7.5	4.9	0.0	7.0
32	78.8	58.1	38.0	-----	42.9	1.0	3.3	4.0	3.9	0.0	6.0
89	79.1	46.2	63.0	-----	14.3	3.3	6.3	7.0	5.0	0.0	5.0
18	90.2	51.6	75.0	-----	42.9	2.5	4.7	7.5	4.3	0.0	6.0
137	60.6	48.4	50.0	-----	0.0	0.7	7.3	7.5	5.7	0.0	5.0
110	78.4	43.1	75.0	20.0	28.6	2.3	5.7	7.5	5.8	2.0	6.0
102	100.2	58.0	25.0	20.0	28.6	0.3	5.0	6.5	5.0	1.0	4.0
131	101.8	47.4	50.0	-----	14.3	2.3	3.7	7.5	4.3	0.0	6.0
55	86.3	55.7	88.0	20.0	14.3	1.0	5.0	7.0	6.2	2.0	7.0
111	78.9	44.1	63.0	20.0	28.6	1.0	6.7	7.0	5.3	2.0	6.0
20	103.4	42.3	38.0	-----	0.0	0.5	6.3	6.0	4.7	7.0	6.0
72	85.4	52.6	50.0	-----	14.3	1.7	7.0	7.5	4.7	0.0	6.0
180	112.5	50.0	-----	-----	20.0	5.5	6.3	3.0	4.7	0.0	-----
123	81.3	43.8	63.0	20.0	14.3	0.3	4.3	7.0	4.8	1.0	7.0
65	82.8	44.4	50.0	20.0	28.6	0.3	4.3	6.0	4.4	1.0	6.0
47	88.4	48.1	88.0	20.0	14.3	4.7	5.7	7.5	4.8	2.0	6.0
7	81.1	49.7	63.0	-----	14.3	1.8	7.0	7.0	5.4	0.0	6.0

Table 2 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	STRP RT. H	LEAF RUST	STEM RUST	NOBS:								
											( 2)	( 9)	( 6)	( 8)	( 1)	( 6)	( 6)		
66	CAR853-COCORAQUE X VEERY"S" CM47536-EE-1M-1Y-2M-1Y-0Y-3PTZ-0Y			3622.0	111.9	130.4	1.7	0.0	0.0	20.0									
118	IAS204-H567.71 CMH77A.275-8B-3Y-1B-3Y-2PTZ-0Y			3588.0	106.9	121.4	24.2	0.0	0.2	21.8									
169	KVZ X ANE-MY64/PF.70354 B13977-A-1Z-5A-0A-2PTZ-0Y			3566.0	113.6	127.8	22.0	0.0	0.8	2.0									
163	PF.7673			3554.0	111.4	126.8	56.0	10.0	8.2	21.2									
5	CIQUENA X KAL-BB CM15133-26BJ-3AL-1AL-0AL-1B-0Y-0PTZ			3543.5	110.2	140.8	7.7	0.0	12.6	28.0									
112	F3.71-TORIM 8MH5704-10Y-1M-3Y-3M-3Y-0B-2PTZ-0Y			3522.0	108.6	138.7	3.1	0.0	3.2	17.4									
76	TOMEE"S" CM34709-0-2M-2Y-10M-3Y-1M-0Y			3522.0	110.7	139.3	9.0	0.0	28.6	16.8									
54	JUP-MUB"S"(CND"S"-7C X CND-INIA/TDB) CM43601-K-3Y-3M-6Y-2M-1Y-0B-2PTZT 0Y			3510.5	109.7	139.5	8.5	0.0	20.0	11.6									
58	JUP-MUB"S"(CND"S"-7C X CND-INIA/TDB) CM43601-K-3Y-3M-7Y-1M-0Y-4PTZ-0Y			3486.0	110.7	143.2	6.0	0.0	24.0	2.0									
12	VEERY"S" CM33027-F-1M-9Y-0M-1PTZ-0Y			3482.0	110.3	126.2	3.0	0.0	32.2	20.1									
16	VEERY"S" CM33027-F-15M-4Y-4M-2Y-1M-1Y-0M-0PTZ			3469.5	111.9	142.4	8.7	0.0	31.0	20.1									
19	VEERY"S" CM33027-F-15M-500Y-0M-126B-0Y-1PTZ-0Y			3468.5	112.8	141.2	5.9	0.0	28.0	2.2									
152	IAS 62 MATERIALS FROM AUSSEN I-II-III			3466.0	110.8	125.8	54.0	60.0	24.0	26.8									
85	MONCHO"S"-CONDOR"S" CM36925-3Y-3M-4Y-1M-3Y-0M			3451.5	112.7	140.3	7.8	20.0	2.0	3.9									
13	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-0Y-53B-0Y-1PTZ-0Y			3451.5	111.0	125.8	5.9	0.0	11.6	2.3									
105	KVZ/INIA"S"-ON X INIA-BB 8MH2893-2J-2J-300J-1Y-6B-0Y-1PTZ 0Y			3444.0	110.4	126.3	5.9	0.0	18.0	20.0									
86	PIMA77 X RG"S"-SOTY/SISKIN"S"-PAVON" " CM34709-P-1M-1Y-1M-3Y-1M-2Y-0M			3444.0	107.7	128.0	5.5	0.0	18.8	20.1									
168	KVZ X ANE-MY64/PF.70354 B13977-A-1Z-5A-0A-1PTZ-0Y			3444.0	112.6	127.0	25.9	0.0	0.1	20.0									
177	PARANA X OS"S"-CR"S"/QTA"S" (DURUM) CD10504-H-6M-2Y-7M-2Y-0M			3433.0	104.8	129.0	0.0	-----	4.0	17.0									
178	PARANA X OS"S"-CR"S"/QTA"S" (DURUM) CD10504-H-6M-2Y-7M-1Y-0M			3411.0	115.2	132.7	5.5	-----	1.5	24.4									
17	VEERY"S" CM33027-F-15M-4Y-4M-2Y-1M-1Y-0M-1PTZ-0Y			3409.5	112.1	140.8	4.5	0.0	30.4	2.2									
153	PEL A.506-64-44Y-0M			3388.0	110.1	124.0	48.4	30.0	31.2	26.0									
38	JUPATECO"S"-ALONDRA"S" CM36867-1BY-17M-3Y-0M-1PTZ-0Y			3377.0	111.9	130.6	15.7	0.0	13.2	20.0									
136	IAS20-H567.71 CMH76.480-13Y-5B-0Y-2B-0Y-3PTZ-0Y-0PTZ			3374.5	110.0	121.8	2.6	0.0	2.0	46.7									
52	MRS-MO X PLO CM43533-K-2Y-2M-1Y-2M-1Y-1M-0Y-1PTZ-0Y			3366.0	110.9	136.5	3.0	0.0	12.0	17.0									



VTY	PLNT HT	1000 G. W.	FRST DNGE	SCAB %	CHECK MARK	POW H 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	HEL S 0-9	L FIR 0-9
( 11)	( 1)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
66	84.4	45.1	38.0	20.0	14.3	0.3	4.7	7.0	4.0	1.0	7.0
118	62.4	47.2	50.0	20.0	14.3	1.3	4.3	8.0	4.8	2.0	6.0
169	97.7	47.1	88.0	----	14.3	4.0	4.3	6.0	3.9	0.0	6.0
163	97.1	47.1	88.0	----	14.3	4.3	5.3	7.0	4.5	0.0	5.0
5	93.8	45.2	38.0	----	14.3	4.5	5.0	5.0	3.9	7.0	7.0
112	79.9	43.1	75.0	20.0	28.6	0.3	6.3	7.5	5.4	2.0	6.0
76	85.1	48.7	75.0	20.0	28.6	3.5	5.0	7.0	4.3	1.0	6.0
34	88.2	57.3	75.0	20.0	28.6	1.7	4.3	7.0	5.6	2.0	7.0
58	83.3	56.3	50.0	----	14.3	2.0	4.0	7.0	5.9	0.0	6.0
12	80.2	58.0	63.0	20.0	57.1	2.5	2.7	7.0	3.9	4.0	7.0
16	91.6	49.3	75.0	----	57.1	3.0	3.0	7.0	4.4	0.0	5.0
19	82.8	48.9	88.0	----	42.9	2.5	3.0	7.5	4.7	0.0	6.0
152	119.3	51.0	38.0	----	0.0	3.8	5.7	2.5	4.1	0.0	5.0
85	78.7	32.2	75.0	----	0.0	4.7	5.0	9.0	4.6	0.0	6.0
15	78.0	43.7	75.0	----	14.3	3.0	3.7	8.0	4.5	0.0	6.0
105	104.6	46.8	50.0	----	14.3	3.3	5.3	7.0	5.1	0.0	5.0
86	90.3	58.2	63.0	20.0	28.6	2.7	5.3	6.5	5.1	1.0	6.0
168	97.6	47.2	88.0	----	14.3	4.3	4.3	6.0	4.0	0.0	5.0
177	93.0	43.9	25.0	----	0.0	5.5	3.0	----	3.8	----	5.0
178	83.3	42.5	50.0	----	0.0	5.3	5.5	----	4.6	----	5.0
17	93.4	51.1	63.0	----	42.9	2.5	3.0	7.0	4.5	0.0	5.0
153	101.3	45.8	88.0	20.0	14.3	5.3	4.3	6.5	4.3	2.0	7.0
38	92.6	42.6	63.0	20.0	42.9	0.3	5.0	6.0	5.1	2.0	6.0
136	88.3	50.0	25.0	20.0	42.9	4.5	5.0	8.0	5.2	2.0	6.0
32	102.6	52.2	50.0	20.0	14.3	0.7	6.3	6.5	5.0	5.5	6.0

Table 2 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	STRP RT. H	LEAF RUST	STEM RUST
			NOBS:	( 2)	( 9)	( 6)	( 8)	( 1)	( 6)	( 6)
143	GLENLEA			3344.0	111.1	127.8	8.2	0.0	20.2	2.2
30	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-0M-1PTZ-0Y			3339.0	118.6	152.3	1.6	0.0	0.0	11.2
8	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-506M-501Y-501M-501Y-0M-0Y			3336.5	111.7	142.6	2.6	0.0	2.8	20.0
138	MAYA"S"-PEL. ART CMH76A. 950-1B-8Y-1B-3Y-3B-1Y-2PTZ-0Y			3330.5	104.0	121.2	7.3	0.0	5.0	20.0
119	IAB202-H567.71 X ALONDRA/H570.71-ERA(2) X IAS58 CMH77A. 277-11B-2Y-1B-1Y-1PTZ-0Y			3322.0	109.1	140.2	1.7	0.0	0.0	16.8
49	CND X YMH-TOB/HUAC"S" CM43330-L-2Y-3M-1Y-1M-1Y-2M-0Y-0PTZ-0Y			3280.5	107.4	133.8	14.5	10.0	21.0	2.2
175	PINGUINO"S" (DURUM)			3266.5	112.9	128.8	10.3	90.0	4.1	7.2
149	MARINGA MATERIALS FROM AUSSEN I-II-III			3255.0	111.9	127.3	44.1	90.0	25.0	14.3
13	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-0Y-53B-0Y-1PTZ-0Y			3250.5	110.6	126.8	1.7	0.0	21.0	2.2
145	KITE(2) X FLECHE D'OR-WBJ MATERIALS FROM AUSSEN I-II-III			3233.0	110.9	130.3	28.9	0.0	29.0	21.6
14	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-0Y-52B-0Y-1PTZ-0Y			3203.5	110.8	140.2	3.0	0.0	15.6	2.2
172	ERP"S"-RUSO (DURUM) CD10437-13M-2Y-0M-1PTZ-0Y			3199.0	113.1	144.0	5.5	0.0	16.2	14.0
141	ROMANY X GABO-GAMENYA MATERIALS FROM AUSSEN I-II			3189.0	110.6	128.0	27.2	0.0	28.0	20.2
9	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-506M-501Y-501M-502Y-0M-0Y			3183.0	112.2	136.3	3.9	0.0	10.4	20.0
122	IAB202-H567.71 X ALONDRA/H570.71-ERA(2) X IAS58 CMH77A. 277-11B-2Y-3B-1Y-2PTZ-0Y			3177.0	110.1	146.8	1.7	0.0	0.0	2.2
3	ALONDRA"S" CM11683-A-1Y-1M-1Y-7M-0Y-1PTZ-0Y			3173.0	109.0	138.4	23.5	0.0	21.7	20.8
129	IAB20-H567.71 X IAS204 CMH78. 409-3Y-3B-1Y-1PTZ-0Y			3166.5	112.9	127.3	42.6	0.0	0.3	21.3
10	VEERY"S" CM33027-E-1M-11Y-0M-2PTZ-0Y-1PTZ-0Y			3132.0	108.2	134.3	5.9	0.0	26.4	2.2
59	JUP-HUS"S"(CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-7Y-2M-0Y-1PTZ-0Y			3121.0	109.7	141.0	9.3	0.0	22.0	20.4
21	KINGLET"S" CM33089-W-3M-11Y-0M-2PTZ-0Y			3106.0	109.7	130.4	7.3	0.0	7.2	20.0
114	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-1Y-2PTZ-0Y			3071.5	109.7	139.8	7.4	10.0	0.0	2.2
115	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-2Y-2PTZ-0Y			3046.0	108.7	124.0	4.2	0.0	0.0	2.2
51	CMT-YR X MONCHO"S" CM43405-A-2Y-1M-1Y-1M-1Y-0B-0PTZ-0Y			3033.0	110.9	128.0	1.7	0.0	20.6	20.0
34	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-0M-30Y-0B-1PTZ-0Y			3019.5	108.7	122.2	5.7	0.0	9.2	5.9
39	JUPATECO"S"-ALONDRA"S" CM36867-18Y-20M-0Y-1PTZ-0Y			3018.0	111.0	125.3	4.5	0.0	18.6	20.1
139	MAYA"S"-PEL. ART CMH76A. 950-1B-8Y-1B-3Y-3B-1Y-4PTZ-0Y			3012.0	103.9	121.6	11.6	0.0	4.2	20.0

VTY	PLNT HT	1000 O. W.	FRST DMGE	SCAB %	CHECK MARK	POW H 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	MEL S 0-9	L FIR 0-9
( 11)	( 1)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
143	109.9	55.7	63.0	-----	14.3	2.0	6.0	7.5	4.3	0.0	5.0
30	79.3	-----	50.0	-----	28.6	1.7	3.7	7.5	3.7	0.0	6.0
8	85.7	46.8	63.0	-----	14.3	1.5	7.3	7.0	4.9	0.0	7.0
138	67.1	51.2	63.0	20.0	14.3	0.7	5.0	9.0	5.0	1.0	5.0
119	79.3	44.0	100.0	-----	14.3	0.3	5.0	7.0	5.2	0.0	6.0
49	79.7	53.8	25.0	20.0	57.1	5.0	5.7	8.0	5.4	2.0	5.0
175	80.0	68.8	-----	-----	0.0	5.5	3.3	-----	5.0	0.0	6.0
149	123.2	49.8	25.0	-----	0.0	3.0	5.3	5.5	4.0	0.0	5.0
13	78.4	41.2	75.0	-----	0.0	2.8	3.3	7.5	4.8	0.0	6.0
145	75.6	48.5	50.0	-----	0.0	2.3	6.0	6.0	4.4	0.0	6.0
14	80.5	42.8	75.0	-----	14.3	2.8	3.0	8.0	5.0	0.0	7.0
172	81.3	64.0	38.0	-----	0.0	3.0	4.3	8.0	4.9	0.0	6.0
141	98.4	43.5	50.0	-----	14.3	0.3	5.3	6.5	4.4	0.0	6.0
9	87.5	47.8	75.0	20.0	42.9	3.5	7.7	7.0	5.0	2.0	6.0
122	78.4	44.5	63.0	-----	0.0	0.3	5.0	8.0	4.5	0.0	6.0
3	95.6	49.1	88.0	-----	28.6	3.0	3.3	7.0	4.7	0.0	6.0
129	65.2	41.7	25.0	-----	0.0	4.0	3.3	7.0	4.2	0.0	6.0
10	82.1	57.6	50.0	20.0	28.6	1.3	4.0	7.0	4.1	5.5	6.0
59	84.9	56.3	50.0	20.0	28.6	2.3	3.7	6.0	5.7	1.0	7.0
21	80.6	57.4	63.0	20.0	14.3	2.3	5.0	7.0	4.5	2.0	6.0
114	75.6	52.3	63.0	-----	14.3	2.0	6.0	8.0	5.7	0.0	6.0
115	76.0	50.9	63.0	-----	14.3	1.3	5.7	8.0	4.6	0.0	6.0
51	80.2	54.8	88.0	-----	0.0	3.3	3.7	8.0	4.7	7.0	6.0
34	83.5	56.1	50.0	20.0	42.9	1.3	7.0	5.0	5.4	3.0	6.0
39	92.0	48.7	63.0	-----	0.0	0.3	4.7	7.0	5.0	0.0	5.0
139	69.2	51.6	63.0	20.0	14.3	0.7	5.3	8.5	4.8	1.0	5.0

Table 2 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	STRP RT. H	LEAF RUST	STEM RUST	NOBS:									
											( 2 )	( 9 )	( 6 )	( 8 )	( 1 )	( 6 )	( 6 )			
130	IAS20-H567.71 X IAS204 CMH78.409-3Y-7B-1Y-1PTZ-OY			3002.5	111.8	125.6	29.9	5.0	2.2	28.5										
35	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-OM-32Y-OB- 2PTZ-OY			2991.5	109.2	139.0	6.2	0.0	5.8	5.9										
99	KVZ-K4500. L. A. 4 SM0176-3M-1Y-10Y-1Y-1M-0Y-OPTZ			2981.0	111.7	128.0	2.9	0.0	2.8	2.2										
162	PAT. 7392			2955.0	108.8	126.5	85.9	100.0	16.8	22.0										
31	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-OM-2PTZ-OY			2950.5	114.1	146.2	1.6	0.0	0.0	11.2										
69	HD1944-CAL X TORIM CM46250-2M-1Y-4M-2Y-0Y-3PTZ-OY			2944.0	108.1	127.8	8.6	10.0	6.2	20.0										
57	JUP-MUS"S"(CND"S"-7C X CND-INIA/TDB) CM43601-K-3Y-3M-7Y-1M-0Y-1PTZ-OY			2915.0	110.6	130.0	7.9	0.0	24.4	20.1										
174	D. DWARF 815-CRANE"S" (DURUM)			2857.0	110.9	127.8	6.6	5.0	26.3	19.8										
36	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-OM-82Y-OB- 1PTZ-OY			2847.0	109.0	124.5	10.7	0.0	11.2	20.7										
135	(IAS20-H567.71 X IAS20/ALONDRA"S") (IAS20-H567.71 X IAS20/PEL. ART) CMH78A.448-9B-2Y-2PTZ-OY			2811.0	109.9	135.8	19.7	0.0	0.2	1.9										
170	((MY54/N10-Y50 X K. LINE)CDZJCJ71"S" PAT. 49 B13981-H-1Z-1Z-1A-1A-0A-1PTZ-OY			2810.0	113.3	127.0	25.2	0.0	18.2	16.8										
33	SUNBIRD"S" CM34636-D-5M-5Y-6M-3Y-2M-0Y-1PTZ OY			2805.5	112.3	142.3	1.7	0.0	0.3	2.2										
4	ALONDRA"S" CM11683-A-1Y-1M-3Y-11M-0Y-OPTZ- OY-1PTZ-OY			2779.5	110.3	124.3	29.6	0.0	20.2	20.8										
2	KATHADIN"S" CM3484-F-5Y-4M-3Y-3M-1Y-OM-1PTZ- OY			2777.0	109.1	138.6	9.6	0.0	31.0	24.8										
157	CEP. 7779			2755.0	108.3	125.5	27.0	0.0	1.6	3.8										
154	PF. 69175 MATERIALS FROM AUSSEN I-II-III			2755.0	110.1	125.8	47.0	20.0	22.2	38.1										
103	KVZ/INIA"S"-ON X INIA-BB SM-2893-2J-1J-300J-1Y-1B-0Y- 1PTZ-OY			2711.0	112.6	131.0	8.5	0.0	16.0	16.8										
171	((MY54/B10-Y50 X K. LINE)CDZJCJ71"S" AT. 49 B13981-H-1Z-1Z-1A-1A-0A-2PTZ-OY			2690.5	113.7	127.0	26.2	0.0	14.0	20.0										
83	YECORA70-TRIFON"S" CM36749-10Y-3M-5Y-3M-4Y-OM			2688.0	110.4	139.7	2.3	0.0	0.2	40.0										
50	CHT-MO X TORIM CM43381-D-1Y-4M-3Y-2M-1Y-OB-1PTZ OY			2677.5	112.7	129.3	1.7	0.0	0.2	2.2										
60	PAT. 73121(CHECK)			2655.5	110.0	127.5	34.1	30.0	0.2	20.8										
56	JUP-MUS"S"(CND"S"-7C X CND-INIA/TDB) CM43601-K-3Y-3M-6Y-5M-1Y-OB-1PTZ OY			2633.0	109.6	129.4	9.9	0.0	20.0	20.0										
100	CNT. B(CHECK)			2630.5	113.2	128.8	24.9	30.0	12.8	21.6										
45	GOV-AZT X MUS"S" CM41237-I-8M-1Y-1M-1Y-2M-0Y-OPTZ 1PTZ-OY			2388.0	111.2	136.5	1.7	0.0	2.0	2.2										
11	VEERY"S" CM33027-E-1M-11Y-OM-2PTZ-OY-2PTZ OY			2501.5	108.2	136.0	8.7	0.0	22.4	20.0										
128	IAS202-H567.71 X IAS58 CMH78.390-2Y-2B-1Y-1PTZ-OY			2482.0	111.3	126.5	26.7	0.0	0.2	7.2										

VTY	PLNT HT	1000 G. W.	FRST DMGE	SCAB %	CHECK MARK	POW M 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	HEL S 0-9	L FIR 0-9
	( 11)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
130	101.9	46.2	38.0	20.0	42.9	0.3	3.3	7.0	4.7	1.0	6.0
35	85.8	36.6	90.0	-----	0.0	3.3	6.7	6.0	4.9	0.0	6.0
99	88.2	43.2	25.0	20.0	57.1	2.7	3.7	7.5	4.5	1.0	4.0
162	107.3	45.7	75.0	-----	0.0	4.0	5.0	6.5	4.4	0.0	6.0
31	79.8	57.7	90.0	-----	28.6	0.3	3.3	5.0	3.9	0.0	7.0
69	89.5	43.2	75.0	-----	0.0	5.3	5.3	8.0	4.6	0.0	7.0
57	81.7	57.2	90.0	20.0	28.6	2.3	4.0	7.0	5.7	2.0	6.0
174	76.2	58.1	75.0	-----	0.0	3.0	4.3	7.0	4.9	0.0	6.0
36	83.2	56.1	90.0	-----	0.0	1.3	7.0	6.0	5.5	0.0	6.0
135	74.4	49.3	25.0	20.0	14.3	0.3	4.3	8.5	4.8	2.0	6.0
170	96.8	46.8	63.0	-----	42.9	4.3	3.7	6.5	4.4	0.0	5.0
33	81.5	60.1	63.0	20.0	14.3	1.7	3.7	4.0	3.8	3.0	6.0
4	91.5	53.8	63.0	-----	42.9	3.3	4.3	4.0	4.5	0.0	7.0
2	90.5	56.5	98.0	-----	0.0	1.8	4.7	7.0	3.6	0.0	6.0
157	110.3	46.4	38.0	-----	0.0	5.0	4.3	4.0	4.4	0.0	5.0
154	130.3	53.4	75.0	-----	0.0	5.0	4.3	2.5	4.9	0.0	7.0
103	100.4	43.6	38.0	20.0	28.6	3.3	6.0	7.0	5.0	4.5	5.0
171	94.6	45.9	63.0	-----	42.9	4.0	4.7	5.0	3.9	0.0	5.0
83	87.8	66.2	75.0	20.0	42.9	1.0	6.0	7.0	4.5	1.0	8.0
50	69.8	56.9	63.0	-----	0.0	3.3	6.0	6.0	5.0	0.0	6.0
60	110.2	50.2	25.0	-----	14.3	5.5	6.7	4.5	4.4	0.0	7.0
36	87.5	53.3	90.0	20.0	42.9	2.3	4.7	6.0	5.7	2.0	6.0
100	112.6	50.7	13.0	-----	14.3	0.7	4.0	2.5	4.6	0.0	3.0
45	78.0	51.8	75.0	20.0	42.9	0.7	4.7	7.0	4.3	2.0	5.0
11	80.5	58.5	50.0	20.0	28.6	2.5	3.0	7.0	4.5	3.0	7.0
128	62.0	39.8	38.0	-----	0.0	4.3	3.7	7.0	4.5	0.0	5.0

Table 2 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	STRP RT. H	LEAF RUST	STEM RUST	NOBS:									
											( 2 )	( 9 )	( 6 )	( 8 )	( 1 )	( 6 )	( 6 )			
97	CARTHAGE-ALONDRA I114055-0M-3LD-2OLD-1LD-0M			2477.0	107.8	125.3	13.9	0.0	4.4	16.8										
124	H567. 71-PEL. ART(3) CMH77. 308-1Y-4B-1Y-1B-3Y-1PTZ-0Y			2476.5	108.2	133.0	19.2	0.0	20.0	9.2										
109	CDC X RBS-63. 11666. 2 SM5106-9Y-1M-1Y-1M-1Y-1M-0Y- 1PTZ-0Y			2455.0	107.0	123.4	25.0	30.0	17.2	17.0										
46	OOV-AZT X MUS"S" CH41257-1-8M-1Y-1M-2Y-2M-0Y-OPTZ 2PTZ-0Y			2411.0	112.3	137.3	1.7	0.0	3.5	2.2										
147	BARPET-MANANTIAL 4-1-2-2-1-3-OPTZ-0Y			2404.5	110.0	133.3	19.6	10.0	0.5	24.0										
126	H567. 71-PEL. ART X ALONDRA"S" CMH78. 384-1Y-5B-1Y-1PTZ-0Y			2366.0	106.6	125.0	28.4	0.0	5.0	16.8										
53	JUP-MUS"S" (CND"S"-7C X CND-INIA/T08) CM43601-C-4Y-1M-3Y-2M-2Y-1M-0Y- 1PTZ-0Y			2366.0	110.7	136.2	5.9	0.0	17.6	2.2										
67	IAB62-ZP"S" X ALDAN"S" CH47978-II-3M-1Y-1M-3Y-0Y-1PTZ- 0Y			2266.0	107.9	129.8	26.1	5.0	16.8	18.0										
164	PF. 70100 -2PTZ-0Y			2252.0	111.7	127.5	28.3	20.0	13.6	18.7										
82	YECORA70-TRIFON"S" CH36749-10Y-3M-5Y-2M-1Y-0M			2199.0	111.6	141.6	1.7	0.0	0.5	30.8										
198	CEP. 76171 = J9198. 67-LV X IAS20-TA08 DES			2077.0	106.8	124.0	37.5	100.0	21.0	17.7										
127	H567. 71-PEL. ART X ALONDRA"S" CMH78. 384-1Y-5B-1Y-2PTZ-0Y			2055.0	106.4	124.5	32.1	0.0	2.8	20.8										
6	TZPP2-ANE X INIA/JAR-KVZ CM21335-9Y-3M-1Y-1Y-0B-2PTZ- 0Y			1966.0	107.0	140.6	9.9	0.0	0.3	20.1										
155	PF. 70226 MATERIALS FROM AUSSEN I-II-III			1966.0	115.9	126.8	61.4	20.0	20.2	23.8										
84	MONCHO"S"-CONDOR"S" CM36925-3Y-3M-1Y-1M-1Y-0M			1955.0	112.1	139.0	30.4	30.0	2.1	21.6										
151	NOVA PRATA MATERIALS FROM AUSSEN I-II-III			1933.0	111.8	129.8	51.4	90.0	16.0	16.8										
120	LERMA ROJ064(CHECK)			1892.5	106.8	123.0	29.9	0.0	21.5	33.3										
1	7CERR0S(CHECK)			1886.0	112.2	125.8	51.3	90.0	34.0	18.2										
176	ZENATI BOUTEILLE (DURUM)			1844.0	107.5	127.3	16.5	10.0	2.2	41.4										
134	PEL. ART(2)-CMH72A. 429 CMH78. 420-1Y-1B-1Y-1PTZ-0Y			1811.0	107.3	125.0	21.7	0.0	10.4	23.3										
133	ALONDRA"S" X ERA(3)-BON64/ALONDRA"S" CMH78. 413-11Y-1B-1Y-1PTZ-0Y			1788.0	107.4	125.0	19.6	0.0	8.8	17.1										
167	PEL. 72380-ART71 B13374-0M-599Y-101A-101Y-0A-1PTZ 0Y			1744.0	107.9	124.3	51.4	0.0	2.0	45.0										
80	BONDRA64(CHECK)			1684.5	104.1	123.0	51.7	90.0	24.5	21.6										
160	7 CERR0S(CHECK)			1439.5	111.4	127.0	44.8	90.0	14.8	6.5										
40	INIA66(CHECK)			1296.0	104.0	122.8	40.3	0.0	22.8	21.6										
179	D6B-10-2A-2A			1144.0	116.6	130.0	13.3	-----	2.8	29.6										
173	GANSO"S" (DURUM)			1077.0	112.4	129.8	15.4	10.0	1.6	24.8										

VTY	PLNT HT	1000 O. W.	FRST DMGE	SCAB %	CHECK MARK	POM N 0-9	SEP T 0-9	SEP N 0-9	SEP S 0-9	MEL S 0-9	L FIR 0-9
	( 11)	( 1)	( 1)	( 1)	( 7)	( 4)	( 4)	( 2)	( 11)	( 2)	( 1)
97	87.6	50.2	75.0	----	14.3	2.7	7.0	7.0	5.5	0.0	5.0
124	88.9	51.9	50.0	----	42.9	1.3	4.7	6.5	5.2	2.0	6.0
109	93.2	59.9	63.0	20.0	28.6	5.0	4.3	8.0	5.8	4.5	6.0
46	78.1	49.6	38.0	20.0	14.3	0.3	4.7	7.0	3.9	2.0	6.0
147	90.9	49.1	25.0	----	14.3	3.5	4.7	6.0	4.0	0.0	3.0
126	76.3	54.7	63.0	----	28.6	4.0	7.3	5.0	5.9	0.0	6.0
53	81.5	49.2	75.0	20.0	14.3	0.3	5.3	7.5	5.1	5.5	7.0
67	91.5	56.4	75.0	----	28.6	4.7	4.0	7.0	4.4	0.0	5.0
164	109.6	44.2	63.0	----	0.0	0.7	4.3	5.0	4.4	0.0	6.0
82	88.1	67.2	75.0	----	14.3	0.3	5.3	7.0	4.5	0.0	7.0
158	109.8	52.4	63.0	----	0.0	2.7	5.3	6.0	5.1	0.0	5.0
127	76.8	54.3	50.0	----	28.6	4.0	7.3	6.0	5.8	0.0	5.0
6	83.1	41.5	25.0	----	14.3	3.3	4.7	7.0	4.2	0.0	6.0
155	125.3	56.7	50.0	----	0.0	4.0	5.0	5.0	4.6	0.0	6.0
84	76.0	55.7	63.0	----	0.0	5.0	5.7	9.0	4.7	0.0	7.0
151	115.7	52.3	38.0	----	0.0	3.7	5.3	2.5	4.2	0.0	5.0
120	87.4	53.9	88.0	----	0.0	3.3	8.0	8.5	5.8	0.0	5.0
1	82.3	40.6	38.0	----	0.0	1.3	8.0	6.0	5.3	0.0	6.0
176	102.2	63.8	----	----	0.0	4.0	5.0	----	5.5	0.0	6.0
134	64.0	50.3	25.0	----	0.0	4.3	4.7	7.0	5.2	0.0	6.0
133	82.0	52.1	50.0	----	0.0	3.7	5.7	4.0	5.3	0.0	6.0
167	106.0	47.7	75.0	----	0.0	3.3	4.7	6.0	4.3	0.0	6.0
80	78.6	47.9	88.0	----	0.0	3.7	8.3	7.0	6.2	0.0	6.0
160	90.8	45.2	50.0	----	0.0	3.7	7.7	8.0	5.2	0.0	6.0
40	80.6	49.3	50.0	----	14.3	5.7	7.7	7.0	5.6	0.0	5.0
179	72.9	60.5	----	----	0.0	3.0	5.7	1.0	5.2	0.0	6.0
173	72.4	70.1	50.0	----	0.0	3.0	5.7	7.0	4.9	6.0	6.0

**Table 3. Top performance entries: *Septoria tritici***

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP T 0-9	SEP N 0-9	SEP S 0-9
				NOBS: ( 4)	( 2)	( 11)
12	VEERY"S" CM33027-F-1M-9Y-0M-1PTZ-0Y			2.7	7.0	3.9
177	PARANA X GS"S"-CR"S"/GTA"S" (DURUM) CD10504-H-6M-2Y-7M-2Y-0M			3.0	-----	3.8
14	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-0Y-52B-0Y-1PTZ-0Y			3.0	8.0	5.0
17	VEERY"S" CM33027-F-13M-4Y-4M-2Y-1M-1Y-0M-1PTZ-0Y			3.0	7.0	4.5
16	VEERY"S" CM33027-F-13M-4Y-4M-2Y-1M-1Y-0M-0PTZ			3.0	7.0	4.4
19	VEERY"S" CM33027-F-15M-500Y-0M-126B-0Y-1PTZ-0Y			3.0	7.5	4.7
11	VEERY"S" CM33027-E-1M-11Y-0M-2PTZ-0Y-2PTZ 0Y			3.0	7.0	4.5
13	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-0Y-53B-0Y-1PTZ-0Y			3.3	7.5	4.8
130	IAS20-H567.71 X IAS204 CMH78.409-3Y-7B-1Y-1PTZ-0Y			3.3	7.0	4.7
32	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-0M-3PTZ-0Y			3.3	4.0	3.9
3	ALONDRA"S" CM11683-A-1Y-1M-1Y-7M-0Y-1PTZ-0Y			3.3	7.0	4.7
129	IAS20-H567.71 X IAS204 CMH78.409-3Y-5B-1Y-1PTZ-0Y			3.3	7.0	4.2
31	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-0M-2PTZ-0Y			3.3	5.0	3.9
175	PINGUINO"S" (DURUM)			3.3	-----	5.0
166	PEL.72380-ART71 B13374-0A-0L-106T-2PTZ-0Y			3.3	6.0	4.5
132	IAS20-H567.71 X IAS204 CMH78.409-3Y-10B-1Y-1PTZ-0Y			3.3	6.0	4.1
170	((HY54/N10-Y50 X K.LINE)CDZJCJ71"S" PAT 49 B13981-H-1Z-1Z-1A-1A-0A-1PTZ-0Y			3.7	6.5	4.4
51	CMT-YR X MONCHO"S" CM43405-A-2Y-1M-1Y-1M-1Y-0B-0PTZ 0Y			3.7	8.0	4.7
15	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-0Y-53B-0Y-1PTZ-0Y			3.7	8.0	4.5
59	JUP-MUS"S" (CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-7Y-2M-0Y-1PTZ-0Y			3.7	6.0	5.7
128	IAS202-H567.71 X IAS58 CMH78.390-2Y-2B-1Y-1PTZ-0Y			3.7	7.0	4.5
101	BURGUS(2)-SORT12.13 X KAL-BB SWM3113-2M-4Y-1M-2Y-1M-2Y-0M			3.7	7.5	4.1
30	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-0M-1PTZ-0Y			3.7	7.5	3.7
99	KVZ-K4500 L.A.4 SW0176-3M-1Y-10Y-1Y-1M-0Y-0PTZ			3.7	7.5	4.5



Table 3 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP T 0-9	SEP N 0-9	SEP S 0-9
			NOBS:	( 4 )	( 2 )	( 11 )
33	SUNBIRD"S" CM34636-D-5M-5Y-6M-3Y-2M-0Y-1PTZ OY			3.7	4.0	3.8
131	IAS20-H567.71 X IAS204 CMH78.409-3Y-7B-1Y-3PTZ-OY			3.7	7.5	4.3
57	JUP-MUS"S" (CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-7Y-1M-0Y-1PTZ-OY			4.0	7.0	5.7
67	IAS62-ZP"S" X ALDAN"S" CM47978-II-3M-1Y-1M-3Y-0Y-1PTZ- OY			4.0	7.0	4.4
108	FLN-ACC X ANAHUAC SWM4578-56M-3Y-1Y-0M-0PTZ-OY			4.0	7.0	4.6
58	JUP-MUS"S" (CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-7Y-1M-0Y-4PTZ-OY			4.0	7.0	5.9
44	NEELKANT"S" CH40454-11M-4Y-2M-1Y-0M-1PTZ-OY			4.0	8.0	5.0
41	JUP"S"-ZOPILOTE X COCORAGUE"S" CM37614-B-14Y-4M-1Y-0M-0PTZ-OY			4.0	8.0	4.2
22	CHAT"S" CM33090-N-1M-1Y-0M-59Y-0B-1PTZ- OY			4.0	6.5	4.6
10	VEERY"S" CM33027-E-1M-11Y-0M-2PTZ-OY-1PTZ OY			4.0	7.0	4.1
146	HJI-P69.75 X B. NAHUNCURA P1695-300J-1Y-1B-0Y-0PTZ-OY			4.0	7.0	5.2
26	BOBWITE"S" CM33203-K-9M-24Y-1M-1Y-1M-2Y-0M- 1PTZ-OY			4.0	5.0	4.0
42	BCH"S" X KAL-BB(BB-CNOC(LR64/SOM64 X SKE-ANE)CND)HORK"S" CM38559-A-2Y-2M-1Y-3M-0Y-2PTZ-OY			4.0	8.0	4.5
156	C. 3228/65 MATERIALS FROM AUSSEN I-II-III			4.0	2.0	4.5
165	PEL. 72380-ART71 B13374-0A-0L-106T-1PTZ-OY			4.0	6.0	4.3
100	CNT. B(CHECK)			4.0	2.5	4.6
4	ALONDRA"S" CM11683-A-1Y-1M-3Y-11M-0Y-0PTZ- OY-1PTZ-OY			4.3	4.0	4.5
153	PEL A. 506-64-44Y-0M			4.3	6.5	4.3
164	PF. 70100 -2PTZ-OY			4.3	5.0	4.4
135	(IAS20-H567.71 X IAS20/ALONDRA"S") (IAS20-H567.71 X IAS20/PEL. ART) CMH78A.448-9B-2Y-2PTZ-OY			4.3	8.5	4.8
107	KVZ-7C SWM4064-6Y-4M-3Y-1M-1Y-3M-0Y- OPTZ-OY-0PTZ			4.3	6.0	4.5
157	CEP. 7779			4.3	4.0	4.4
123	IAS202-H567.71 X ALONDRA/H570.71- ERA(2) X IAS58 CMH77A.277-11B-2Y-3B-3Y-2PTZ-OY			4.3	7.0	4.8
172	ERP"S"-RUSD (DURUM) CD10437-13M-2Y-0M-1PTZ-OY			4.3	8.0	4.9
118	IAS204-H567.71 CMH77A.275-8B-3Y-1B-3Y-2PTZ-OY			4.3	8.0	4.8
169	KVZ X ANE-MY64/PF. 70354 B13977-A-1Z-5A-0A-2PTZ-OY			4.3	6.0	3.9

Table 3 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP T 0-9	SEP N 0-9	SEP S 0-9
			NOBS:	( 4)	( 2)	( 11)
174	D. DWARF S15-CRANE"S" (DURUM)			4.3	7.0	4.9
65	CARB53-COCORAGUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-2PTZ-0Y			4.3	6.0	4.4
109	COC X RBS-63.11666.2 SWM5106-9Y-1M-1Y-1M-1Y-1M-0Y-1PTZ-0Y			4.3	8.0	5.8
168	KVZ X ANE-MY64/PF. 70354 B13977-A-1Z-5A-0A-1PTZ-0Y			4.3	6.0	4.0
54	JUP-MUS"S" (CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-6Y-2M-1Y-0B-2PTZT 0Y			4.3	7.0	5.6
154	PF. 69175 MATERIALS FROM AUSSEN I-II-III			4.3	2.5	4.9
147	BARPET-MANANTIAL 4-1-2-2-1-3-0PTZ-0Y			4.7	6.0	4.0
161	MR. 740. 42 = SX-PF111001. 62 -1PTZ-0Y			4.7	7.0	4.2
171	[(MY54/B10-Y50 X K. LINE)CDZJCJ71"S" AT. 49 B13981-H-1Z-1Z-1A-1A-0A-2PTZ-0Y			4.7	5.0	3.9
39	JUPATECO"S"-ALONDRA"S" CM36867-18Y-20M-0Y-1PTZ-0Y			4.7	7.0	5.0
56	JUP-MUS"S" (CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-6Y-3M-1Y-0B-1PTZT 0Y			4.7	6.0	5.7
6	TZPP2-ANE X INIA/JAR-KVZ CM21335-9Y-3M-1Y-1Y-1Y-0B-2PTZ-0Y			4.7	7.0	4.2
2	KATHADIN"S" CM5484-F-5Y-4M-3Y-3M-1Y-0M-1PTZ-0Y			4.7	7.0	3.6
45	GOV-AZT X MUS"S" CM41257-I-8M-1Y-1M-1Y-2M-0Y-0PTZ 1PTZ-0Y			4.7	7.0	4.3
124	H567. 71-PEL. ART (3) CMH77. 308-1Y-4B-1Y-1B-3Y-1PTZ-0Y			4.7	6.5	5.2
92	GALLO-CUCKOO X KVZ-SX CM34630-D-1M-9Y-6M-2Y-1M-0Y			4.7	7.0	5.0
46	GOV-AZT X MUS"S" CM41257-I-8M-1Y-1M-2Y-2M-0Y-0PTZ 2PTZ-0Y			4.7	7.0	3.9
28	BOBWHITE"S" CM33203-N-1M-1Y-1M-1Y-0M-74Y-0B-1PTZ-0Y			4.7	4.0	4.1
121	IAS202-H567. 71 X ALONDRA/H570. 71-ERA(2) X IAS58 CMH77A. 277-11B-2Y-1B-2Y-2PTZ-0Y			4.7	8.0	5.0
167	PEL. 72380-ART71 B13374-0M-999Y-101A-101Y-0A-1PTZ 0Y			4.7	6.0	4.3
18	VEERY"S" CM33027-F-15M-4Y-4M-2Y-1M-1Y-0M-2PTZ-0Y			4.7	7.5	4.3
66	CARB53-COCORAGUE X VEERY"S" CM47556-FE-1M-1Y-2M-1Y-0Y-3PTZ-0Y			4.7	7.0	4.0
134	PEL. ART (2)-CMH72A. 429 CMH78. 420-1Y-1B-1Y-1PTZ-0Y			4.7	7.0	5.2
43	HD2206-HOKK"S" CM39808-23Y 1M-1Y-5M-1Y-1M-0Y-1PTZ-0Y			4.7	8.0	4.5

Table 3 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	NOBS: ( 4) ( 2) ( 11)		
				SEP T 0-9	SEP N 0-9	SEP S 0-9
63	NACIZARI-AZTECA CM46746-34M-1Y-2M-3Y-0Y-2PTZ-0Y			4.7	6.5	4.6
38	JUPATECO"S"-ALONDRA"S" CM36867-18Y-17M-3Y-0M-1PTZ-0Y			5.0	6.0	5.1
162	PAT. 7392			5.0	6.5	4.4
102	TRIFON"S" F4-5Y-0M-2Y-0Y-1PTZ-0Y-1PTZ-0Y			5.0	6.5	5.0
81	CD-GOLDFINCH"S" X PAVON"S" CM40607-5M-1Y-1M-1Y-0M			5.0	7.0	4.6
79	S12-BB X PJ62/PAVON"S" CM40597-7M-2Y-3M-1Y-0M			5.0	7.5	6.1
138	MAYA"S"-PEL. ART CMH76A. 950-1B-8Y-1B-3Y-3B-1Y-2PTZ-0Y			5.0	9.0	5.0
85	MONCHO"S"-CONDOR"S" CM36925-3Y-3M-4Y-1M-3Y-0M			5.0	9.0	4.6
136	IAS20-H567. 71 CMH76. 480-13Y-5B-0Y-2B-0Y-3PTZ-0Y-OPTZ			5.0	8.0	5.2
119	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-1B-1Y-1PTZ-0Y			5.0	7.0	5.2
55	JUP-MUS"S"(CND"S"-7C X CND-INIA/TOB) CM43601-K-3Y-3M-6Y-4M-1Y-0B-1PTZT OY			5.0	7.0	6.2
122	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-3B-1Y-2PTZ-0Y			5.0	8.0	4.5
76	TOWHEE"S" CM34709-G-2M-2Y-10M-3Y-1M-0Y			5.0	7.0	4.3
5	CIQUENA X KAL-BB CM15133-26BJ-3AL-1AL-OAL-1B-0Y- OPTZ			5.0	5.0	3.9
142	NS. 13-09 = GABO 56-8KA2 MATERIALS FROM AUSSEN I-II			5.0	5.0	5.1
64	CARB53-COCDRAGUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-1PTZ- 0Y			5.0	5.0	4.2
176	ZENATI BOUTEILLE (DURUM)			5.0	----	5.5
21	KINGLET"S" CM33089-W-3M-11Y-0M-2PTZ-0Y			5.0	7.0	4.5
155	PF. 70226 MATERIALS FROM AUSSEN I-II-III			5.0	5.0	4.6
82	YECORA70-TRIFON"S" CM36749-10Y-3M-5Y-2M-1Y-0M			5.3	7.0	4.5
151	NOVA PRATA MATERIALS FROM AUSSEN I-II-III			5.3	2.5	4.2
139	MAYA"S"-PEL. ART CMH76A. 950-1B-8Y-1B-3Y-3B-1Y- 4PTZ-0Y			5.3	8.5	4.8
149	MARINGA MATERIALS FROM AUSSEN I-II-III			5.3	5.5	4.0
62	CHL-BJY"S"(KAL-BB(VG9144/VIL. 29 X II. 50. 1B-VGDW)) CM44164-E-1Y-2M-1Y-3M-3Y-1M-0Y- 1PTZ-0Y			5.3	7.5	5.0
78	HORK"S"-GRAJO"S" CM42844-27Y-3M-3Y-0M			5.3	7.5	5.6
105	KVZ/INIA"S"-ON X INIA-BB SMH2893-2J-2J-300J-1Y-6B-0Y-1PTZ OY			5.3	7.0	5.1

Table 3 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP T 0-9	SEP N 0-9	SEP S 0-9
			NOBS:	( 4)	( 2)	( 11)
25	BOBWHITE"S" CM33203-K-9M-19Y-3M-4Y-1M-0Y- 1PTZ-0Y			5.3	6.5	3.3
163	PF. 7673			5.3	7.0	4.5
158	CEP. 76171 = J9158. 67-LV X IAS20-TA08 DES			5.3	6.0	5.1
141	ROMANY X GABO-GAMENYA MATERIALS FROM AUSGEN I-II			5.3	6.5	4.4
53	JUP-MUB"S"(CND"S"-7C X CND-INIA/TOB) CM43601-C-4Y-1M-3Y-2M-2Y-1M-0Y- 1PTZ-0Y			5.3	7.5	5.1
69	HD1944-CAL X TORIM CM46250-2M-1Y-4M-2Y-0Y-3PTZ-0Y			5.3	8.0	4.6
86	PIMA77 X RQ"S"-SDTY/SISKIN"S"-PAVON" " CM34709-P-1M-1Y-1M-3Y-1M-2Y-0M			5.3	6.5	5.1
29	SUNBIRD"S" CM34630-D-1M-9Y-6M-2Y-1M-0Y-1PTZ 0Y			5.5	7.0	5.5
178	PARANA X QS"S"-CR"S"/OTA"S" (DURUM) CD10504-H-6M-2Y-7M-1Y-0M			5.5	----	4.6
116	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-2Y-4PTZ-0Y			5.7	8.0	5.5
48	CAL X WREN-WS1657/ANAHUAC"S" CM43065-9Y-4M-1Y-2M-2Y-1M-0Y- 1PTZ-0Y			5.7	7.0	5.3
61	CHL-BJY"S"[KAL-BB(VG9144/VIL. 29 X II. 50. 1B-VGDW)] CM44164-E-1Y-2M-1Y-3M-0Y-1PTZ-0Y			5.7	7.5	4.8
49	CND X YMH-TOB/HUAC"S" CM43330-L-2Y-3M-1Y-1M-1Y-2M-0Y- OPTZ-0Y			5.7	8.0	5.4
148	LEE-RL2564 X FR/IAS54 MATERIALS FROM AUSGEN I-II-III			5.7	6.5	4.2
150	COTIPORA MATERIALS FROM AUSGEN I-II-III			5.7	2.5	4.6
173	GANSO"S" (DURUM)			5.7	7.0	4.9
27	BOBWHITE"S" CM33203-K-9M-24Y-0M-5Y-0B-1PTZ- 0Y			5.7	7.0	3.6
47	AZTECA-PAVON"S" CM42398-72M-1Y-2M-1Y-0Y-OPTZ-0Y			5.7	7.5	4.8
152	IAS 62 MATERIALS FROM AUSGEN I-II-III			5.7	2.5	4.1
84	MONCHO"S"-CONDOR"S" CM36923-3Y-3M-1Y-1M-1Y-0M			5.7	9.0	4.7
159	CNT. 9			5.7	3.5	5.4
115	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-2Y-2PTZ-0Y			5.7	8.0	4.6
77	HORK"S"-GRAJO"S" CM42844-27Y-3M-2Y-0M			5.7	7.0	5.7
125	PEL. ART-HE. 1 CMH78. 363-1Y-1B-1Y-1PTZ-0Y			5.7	6.5	5.5
88	CEBECO1481/RON-CHA X BB-NOR67(CHK- 38MA(4777/REI X Y-KT)JYR-TUCAN"S") CM33682-L-1Y-1Y-8M-1Y-100B-0Y			5.7	7.0	4.4
179	D68-10-2A-2A			5.7	1.0	5.2
110	F3. 71-TORIM SWM5704-10Y-1M-3Y-3M-2Y-3M-0Y- 1PTZ-0Y			5.7	7.5	5.8

Table 3 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP T 0-9	SEP N 0-9	SEP S 0-9
				NOBS: ( 4)	( 2)	( 11)
87	[HNV(KT54A-N10B X KT54B/NAR59)]BJJY" CM41219-1-1M-1Y-2M-2Y-0M			5.7	6.0	4.4
133	ALONDRA"S" X ERA(3)-SON64/ALONDRA"B" CMH7B. 413-11Y-1B-1Y-1PTZ-0Y			5.7	4.0	5.3
50	CMT-MO X TORIM CM43381-D-1Y-4M-3Y-2M-1Y-0B-1PTZ-0Y			6.0	6.0	5.0
95	KVZ-JB216. 67-SISKIN"S" CM33030-D-3M-2Y-1M-4Y-3M-1Y-0M			6.0	7.0	5.3
103	KVZ/INIA"S"-ON X INIA-BB SWM-2893-2J-1J-300J-1Y-1B-0Y-1PTZ-0Y			6.0	7.0	5.0
143	GLENLEA			6.0	7.5	4.3
104	KVZ/INIA"S"-ON X INIA-BB SWM-2893-2J-2J-300J-1Y-1B-0Y-1PTZ-0Y			6.0	7.0	5.4
114	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-1Y-2PTZ-0Y			6.0	8.0	5.7
68	CLP-MON"S" (YR(MPLM X CNO"S"-7C/CC)) CM48984-B-1M-1Y-2M-1Y-0Y-1PTZ-0Y			6.0	7.5	4.9
90	(KVZ/TOB-CFN X BB)BOLILLO"S" CM3302B-I-1M-3Y-1M-1Y-1M-1Y-0M			6.0	7.5	5.2
117	PEL. ART-H567. 71 CMH77A. 260-2B-1Y-7B-1Y-1PTZ-0Y			6.0	8.0	5.3
106	KVZ/INIA"S"-ON X INIA-BB SWM-2893-2J-2J-300J-2Y-3B-0Y-1PTZ-0Y			6.0	7.0	4.7
24	BOBWHITE"S" CM33203-K-9M-19Y-3M-3Y-2M-1Y-0M-1PTZ-0Y			6.0	7.0	4.3
23	BOBWHITE"S" CM33203-K-9M-2Y-1M-1Y-2M-0Y-1PTZ-0Y			6.0	6.0	3.9
145	KITE(2) X FLECHE D'OR-WBJ MATERIALS FROM AUSSEN I-II-III			6.0	6.0	4.4
91	(KVZ/TOB-CFN X BB)BOLILLO"S" CM3302B-I-1M-3Y-1M-1Y-1M-2Y-0M			6.0	3.5	5.1
83	YECORA70-TRIFON"S" CM36749-10Y-3M-5Y-3M-4Y-0M			6.0	7.0	4.5
89	(KVZ/TOB-CFN X BB)BOLILLO"S" CM3302B-I-1M-3Y-1M-1Y-1M-0Y			6.3	7.0	5.0
144	ETHIOPIA S. 16 -1PTZ-0Y			6.3	7.0	4.2
96	CARTHAGE-ALONDRA II14055-0M-5LD-5LD-1LD-0M			6.3	5.0	5.2
98	II12300-TOB66 X CIANO"S" WITHOUT PEDIGREE			6.3	7.5	5.1
112	F3. 71-TORIM SWM5704-10Y-1M-3Y-3M-3Y-0B-2PTZ-0Y			6.3	7.5	5.4
93	KVZ-JB216. 67-SISKIN"S" CM33030-D-3T-2Y-1M-4Y-4M-0Y			6.3	7.0	5.4
180	PAT. 73121 (CHECK)			6.3	3.0	4.7
140	CEP. 7780 (CHECK)			6.3	6.5	5.1
20	CEP. 7780			6.3	6.0	4.7
52	MRS-MO X PLO CM43533-K-2Y-2M-1Y-2M-1Y-1M-0Y-1PTZ-0Y			6.3	6.5	5.0

**Table 3 (con't.).**

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP T 0-9	SEP N 0-9	SEP S 0-9
			NOBS	( 4 )	( 2 )	( 11 )
111	F3 71-TORIM SWM5704-10Y-1M-3Y-3M-3Y-08-1PTZ-0Y			6.7	7.0	5.3
60	PAT 73121 (CHECK)			6.7	4.5	4.4
75	C22-TORIM 73 CM36834-25Y-3M-3Y-2M-0Y			6.7	7.5	5.1
35	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-0M-32Y-08-2PTZ-0Y			6.7	6.0	4.9
94	KVZ-J8216.67-SISKIN"S" CM33030-D-3M-2Y-1M-4Y-2M-1Y-0M			7.0	7.0	5.3
97	CARTHAGE-ALONDRA II14055-0M-5LD-20LD-1LD-0M			7.0	7.0	5.5
37	VULTURE"S" CM36064-A-1M-1Y-0M-1PTZ-0Y			7.0	6.0	5.5
34	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-0M-30Y-08-1PTZ-0Y			7.0	5.0	5.4
113	7C-CND X CAL/CHIROCA"S" SWM6665-2M-1Y-1M-2Y-0Y-1PTZ-0Y			7.0	7.0	5.1
71	MONCHO S -ZARAGOZA75 CM36714-46M-2Y-2M-0Y			7.0	7.5	4.8
36	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-0M-82Y-08-1PTZ-0Y			7.0	6.0	5.5
7	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-507M-0Y-1PTZ-0Y-1PTZ-0Y			7.0	7.0	5.4
72	SPARROW"S"[(BB X SON-KL.REND/CHA) GB(K)] CM32516-31M-2Y-4M-0Y			7.0	7.5	4.7
126	H567.71-PEL ART X ALONDRA"S" CMH78.384-1Y-58-1Y-1PTZ-0Y			7.3	5.0	5.9
8	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-506M-501Y-501M-501Y-0M-0Y			7.3	7.0	4.9
127	H567.71-PEL ART X ALONDRA"S" CMH78.384-1Y-58-1Y-2PTZ-0Y			7.3	6.0	5.8
137	TORIM73-PEL ART CMH76A.947-1B-1Y-2F-0Y-4B-1Y-1PTZ-0Y			7.3	7.5	5.7
74	C22-TORIM 73 CM36834-25Y-3M-3Y-1M-0Y			7.3	7.0	5.6
73	C22-TORIM 73 CM36834-25Y-2M-2Y-1M-0Y			7.3	7.0	5.4
70	TANDRI (RESEL)-HUACANAYO"S" CM39321-16M-1Y-4M-0Y			7.3	8.0	5.3
160	7 CERROS (CHECK)			7.7	8.0	5.2
40	INIA66 (CHECK)			7.7	7.0	5.6
9	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-506M-501Y-501M-502Y-0M-0Y			7.7	7.0	5.0
120	LERMA ROJ64 (CHECK)			8.0	8.5	5.8
1	7 CERROS (CHECK)			8.0	6.0	5.3
30	SONORA64 (CHECK)			8.3	7.0	6.2

Table 4. Top performance entries: *Septoria* species

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP 8 0-9	SEP T 0-9	SEP N 0-9
			NOBS:	( 11)	( 4)	( 2)
25	BOBWHITE"S" CM33203-K-9M-19Y-3M-4Y-1M-0Y-1PTZ-0Y			3.3	5.3	6.5
2	KATHADIN"S" CM3464-F-5Y-4M-3Y-3M-1Y-0M-1PTZ-0Y			3.6	4.7	7.0
27	BOBWHITE"S" CM33203-K-9M-24Y-0M-5Y-0B-1PTZ-0Y			3.6	5.7	7.0
30	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-0M-1PTZ-0Y			3.7	3.7	7.5
177	PARANA X QS"S"-CR"S"/OTA"S" (DURUM) CD10304-H-6M-2Y-7M-2Y-0M			3.8	3.0	----
33	SUNBIRD"S" CM34636-D-5M-5Y-6M-3Y-2M-0Y-1PTZ-0Y			3.8	3.7	4.0
46	GOV-AZT X MUS"S" CM41257-I-8M-1Y-1M-2Y-2M-0Y-OPTZ-2PTZ-0Y			3.9	4.7	7.0
23	BOBWHITE"S" CM33203-K-9M-2Y-1M-1Y-2M-0Y-1PTZ-0Y			3.9	6.0	6.0
32	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-0M-3PTZ-0Y			3.9	3.3	4.0
9	CIGUENA X KAL-BB CM15133-26BJ-3AL-1AL-0AL-1B-0Y-OPTZ			3.9	5.0	5.0
12	VEERY"S" CM33027-F-1M-9Y-0M-1PTZ-0Y			3.9	2.7	7.0
31	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-0M-2PTZ-0Y			3.9	3.3	5.0
171	((MY54/B10-Y30 X K.LINE)CD21CJ71"S" AT. 49 B13981-H-1Z-1Z-1A-1A-0A-2PTZ-0Y			3.9	4.7	5.0
169	KVZ X ANE-MY64/PF. 70354 B13977-A-1Z-5A-0A-2PTZ-0Y			3.9	4.3	6.0
147	BARPET-MANANTIAL 4-1-2-2-1-3-OPTZ-0Y			4.0	4.7	6.0
149	MARINGA MATERIALS FROM AUSSEN I-II-III			4.0	5.3	5.5
26	BOBWHITE"S" CM33203-K-9M-24Y-1M-1Y-1M-2Y-0M-1PTZ-0Y			4.0	4.0	5.0
168	KVZ X ANE-MY64/PF. 70354 B13977-A-1Z-5A-0A-1PTZ-0Y			4.0	4.3	6.0
66	CAR83-COCORAGUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-3PTZ-0Y			4.0	4.7	7.0
132	IAS20-H567. 71 X IAS204 CMH78. 409-3Y-10B-1Y-1PTZ-0Y			4.1	3.3	6.0
28	BOBWHITE"S" CM33203-N-1M-1Y-1M-1Y-0M-74Y-0B-1PTZ-0Y			4.1	4.7	4.0
101	BURGUS(2)-SORT12. 13 X KAL-BB BMP3115-2M-4Y-1M-2Y-1M-2Y-0M			4.1	3.7	7.5
152	IAS 62 MATERIALS FROM AUSSEN I-II-III			4.1	5.7	2.5

Table 4 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	ORAIN	ORIGIN	SEP S 0-9	SEP T 0-9	SEP N 0-9
			NOBS:	( 11)	( 4)	( 2)
10	VEERY"S" CM33027-E-1M-11Y-0M-2PTZ-0Y-1PTZ-0Y			4.1	4.0	7.0
6	TZPP2-ANE X INIA/JAR-KVZ CM21335-9Y-3M-1Y-1Y-1Y-0B-2PTZ-0Y			4.2	4.7	7.0
64	CAR853-COCORAGUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-1PTZ-0Y			4.2	5.0	5.0
129	IAS20-H567.71 X IAS204 CMH78.409-3Y-9B-1Y-1PTZ-0Y			4.2	3.3	7.0
41	JAP"S"-ZOPILOTE X COCORAGUE"S" CM37614-B-14Y-4M-1Y-0M-0PTZ-0Y			4.2	4.0	8.0
144	ETHIOPIA S 16 -1PTZ-0Y			4.2	6.3	7.0
151	NOVA PRATA MATERIALS FROM AUSSEN I-II-III			4.2	5.3	2.5
148	LEE-RL2564 X FR/IAS54 MATERIALS FROM AUSSEN I-II-III			4.2	5.7	6.5
161	MR. 740.42 = SX-PF111001.62 -1PTZ-0Y			4.2	4.7	7.0
165	PEL. 72380-ART71 B13374-0A-0L-106T-1PTZ-0Y			4.3	4.0	6.0
45	GGV-AZT X MUS"S" CM41257-I-8M-1Y-1M-1Y-2M-0Y-0PTZ-1PTZ-0Y			4.3	4.7	7.0
24	BOBWHITE"S" CM33203-K-9M-19Y-3M-3Y-2M-1Y-0M-1PTZ-0Y			4.3	6.0	7.0
143	GLENLEA			4.3	6.0	7.5
131	IAS20-H567.71 X IAS204 CMH78.409-3Y-7B-1Y-3PTZ-0Y			4.3	3.7	7.5
18	VEERY"S" CM33027-F-15M-4Y-4M-2Y-1M-1Y-0M-2PTZ-0Y			4.3	4.7	7.5
76	TOWEE"S" CM34709-G-2M-2Y-10M-3Y-1M-0Y			4.3	5.0	7.0
153	PEL A. 506-64-44Y-0M			4.3	4.3	6.5
167	PEL 72380-ART71 B13374-0M-599Y-101A-101Y-0A-1PTZ-0Y			4.3	4.7	6.0
141	ROMANY X GABO-GAHENYA MATERIALS FROM AUSSEN I-II			4.4	5.3	6.5
145	KITE(2) X FLECHE D'OR-WBJ MATERIALS FROM AUSSEN I-II-III			4.4	6.0	6.0
164	PF 70100 -2PTZ-0Y			4.4	4.3	5.0
65	CAR853-COCORAGUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-2PTZ-0Y			4.4	4.3	6.0
162	PAT. 7392			4.4	5.0	6.5
170	[(MY54/N10-Y50 X K. LINE)CDZ1CJ71"S" PAT. 49 B13981-H-1Z-1Z-1A-1A-0A-1PTZ-0Y			4.4	3.7	6.5
157	CEP. 7779			4.4	4.3	4.0
87	[HNIV(KT54A-N10B X KT54B/NAR59)]BJV" " CM41219-I-1M-1Y-2M-2Y-0M			4.4	5.7	6.0
16	VEERY"S" CM33027-F-15M-4Y-4M-2Y-1M-1Y-0M-0PTZ			4.4	3.0	7.0



Table 4 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP S 0-9	SEP T 0-9	SEP N 0-9
			NOBS.	( 11)	( 4)	( 2)
88	CEBECO1481/ROM-CHA X BB-NOR67((HK-38MA(4777/REI X Y-KT)IYR-TUCAN"S") CM33682-L-1Y-1Y-8M-1Y-100B-OY			4.4	5.7	7.0
60	PAT. 73121(CHECK)			4.4	6.7	4.5
67	IAB62-ZP"S" X ALDAN"S" CM47978-II-3M-1Y-1M-3Y-OY-1PTZ-OY			4.4	4.0	7.0
122	IAS202-H567.71 X ALONDRA/H570.71- ERA(2) X IAS98 CMH77A 277-11B-2Y-3B-1Y-2PTZ-OY			4.5	5.0	8.0
21	KINGLET"S" CM33089-W-3M-11Y-0M-2PTZ-OY			4.5	5.0	7.0
82	YECORA70-TRIFON"S" CM36749-10Y-3M-3Y-2M-1Y-0M			4.5	5.3	7.0
83	YECORA70-TRIFON"S" CM36749-10Y-3M-3Y-3M-4Y-0M			4.5	6.0	7.0
107	KVZ-7C SMM4064-6Y-4M-3Y-1M-1Y-3M-OY- OPTZ-OY-OPTZ			4.5	4.3	6.0
42	BCH"S" X KAL-BB(BB-CNOI(LR64/S0N64 X SKE-ANE)CNO)HORK"S") CM38559-A-2Y-2M-1Y-3M-OY-2PTZ-OY			4.5	4.0	8.0
156	C. 3228/65 MATERIALS FROM AUSSEN I-II-III			4.5	4.0	2.0
163	PF. 7673			4.5	5.3	7.0
17	VEERY"S" CM33027-F-15M-4Y-4M-2Y-1M-1Y-0M- 1PTZ-OY			4.5	3.0	7.0
4	ALONDRA"S" CM11683-A-1Y-1M-3Y-11M-OY-OPTZ- OY-1PTZ-OY			4.5	4.3	4.0
99	KVZ-K4500 L A 4 SNO176-3M-1Y-10Y-1Y-1M-OY-OPTZ			4.5	3.7	7.5
166	PEL. 72380-ART71 B13374-0A-0L-106T-2PTZ-OY			4.5	3.3	6.0
15	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-OY- 53B-OY-1PTZ-OY			4.5	3.7	8.0
43	HD2206-HORK"S" CM39808-23Y-1M-1Y-5M-1Y-1M-OY- 1PTZ-OY			4.5	4.7	8.0
128	IAS202-H567.71 X IAS98 CMH78.390-2Y-2B-1Y-1PTZ-OY			4.5	3.7	7.0
11	VEERY"S" CM33027-E-1M-11Y-0M-2PTZ-OY-2PTZ- OY			4.5	3.0	7.0
135	PF. 70226 MATERIALS FROM AUSSEN I-II-III			4.6	5.0	5.0
150	COTIPORA MATERIALS FROM AUSSEN I-II-III			4.6	5.7	2.5
100	CNT. B(CHECK)			4.6	4.0	2.5
113	CMH77A 754-PEL. ART CMH77 204-1Y-2B-4Y-1B-2Y-2PTZ-OY			4.6	5.7	8.0
63	NACDZARI-AZTECA CM46746-34M-1Y-2M-3Y-OY-2PTZ-OY			4.6	4.7	6.5
108	FLN-ACC X ANAHUAC SMM4578-56M-3Y-1Y-0M-OPTZ-OY			4.6	4.0	7.0
178	PARANA X QS"S"-CR"S"/@TA"S" (DURUM) CD10504-H-6M-2Y-7M-1Y-0M			4.6	5.5	-----

Table 4 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP 5 0-9	SEP 7 0-9	SEP 9 0-9
			NOBS:	( 11)	( 4)	( 2)
69	HD1944-CAL X TORIM CM46250-2M-1Y-4M-2Y-0Y-3PTZ-0Y			4.6	5.3	8.0
85	MONCHO"S"-CONDOR"S" CM36925-3Y-3M-4Y-1M-3Y-0M			4.6	5.0	9.0
22	CHAT"S" CM33090-N-1M-1Y-0M-59Y-08-1PTZ-0Y			4.6	4.0	6.5
81	CD-GOLDFINCH"S" X PAVON"S" CM40607-5M-1Y-1M-1Y-0M			4.6	5.0	7.0
180	PAT. 73121 (CHECK)			4.7	6.3	3.0
130	IAS20-H567. 71 X IAS204 CMH7B. 409-3Y-7B-1Y-1PTZ-0Y			4.7	3.3	7.0
3	ALONDRA"S" CM11683-A-1Y-1M-1Y-7M-0Y-1PTZ-0Y			4.7	3.3	7.0
20	CEP. 7780			4.7	6.3	6.0
51	CMT-YR X MONCHO"S" CM43405-A-2Y-1M-1Y-1M-1Y-0B-OPTZ-0Y			4.7	3.7	8.0
84	MONCHO"S"-CONDOR"S" CM36925-3Y-3M-1Y-1M-1Y-0M			4.7	5.7	9.0
72	SPARROW"S" [(BB X SON-KL. REND/CHA) OB(K)] CM32516-31M-2Y-4M-0Y			4.7	7.0	7.5
106	KVZ/INIA"S"-ON X INIA-BB BMM2893-2J-2J-300J-2Y-3B-0Y-1PTZ-0Y			4.7	6.0	7.0
19	VEERY"S" CM33027-F-13M-500Y-0M-126B-0Y-1PTZ-0Y			4.7	3.0	7.5
61	CHL-BJY"S" [KAL-BB(V69144/VIL. 29 X II. 50. 18-VGDW)] CM44164-E-1Y-2M-1Y-3M-0Y-1PTZ-0Y			4.8	5.7	7.5
47	AZTECA-PAVON"S" CM42398-72M-1Y-2M-1Y-0Y-OPTZ-0Y			4.8	5.7	7.5
13	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-0Y-53B-0Y-1PTZ-0Y			4.8	3.3	7.5
135	(IAS20-H567. 71 X IAS20/ALONDRA"S") (IAS20-H567. 71 X IAS20/PEL. ART) CMH7BA. 448-9B-2Y-2PTZ-0Y			4.8	4.3	8.5
118	IAS204-H567. 71 CMH77A. 275-8B-3Y-1B-3Y-2PTZ-0Y			4.8	4.3	8.0
139	MAYA"S"-PEL. ART CMH76A. 950-1B-8Y-1B-3Y-3B-1Y-4PTZ-0Y			4.8	5.3	8.5
123	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-3B-3Y-2PTZ-0Y			4.8	4.3	7.0
71	MONCHO. S -ZARAGOZA75 CM36714-46M-2Y-2M-0Y			4.8	7.0	7.5
68	CLP-MON"S" [YR(MPLM X CND"S"-7C/CC)] CM48984-B-1M-1Y-2M-1Y-0Y-1PTZ-0Y			4.9	6.0	7.5
172	ERP"S"-RUSO (DURUM) CD10437-13M-2Y-0M-1PTZ-0Y			4.9	4.3	8.0
35	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-0M-32Y-0B-2PTZ-0Y			4.9	6.7	6.0
173	GANSO"S" (DURUM)			4.9	5.7	7.0
8	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-506M-501Y-501M-501Y-0M-0Y			4.9	7.3	7.0

Table 4 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP S 0-9	SEP T 0-9	SEP N 0-9
			NOBS:	( 11)	( 4)	( 2)
174	D. DHARF S15-CRANE"S" (DURUM)			4.9	4.3	7.0
154	PF. 69175 MATERIALS FROM AUSSEN I-II-III			4.9	4.3	2.5
138	MAYA"S"-PEL. ART CMH76A. 950-1B-8Y-1B-3Y-3B-1Y-2PTZ-OY			5.0	5.0	9.0
9	BUCK BUCK"S" CM3167B-R-4Y-2M-500Y-506M-501Y-501M-502Y-0M-OY			5.0	7.7	7.0
92	GALLO-CUCKOO X KVZ-SX CM34630-D-1M-9Y-6M-2Y-1M-OY			5.0	4.7	7.0
103	KVZ/INIA"S"-ON X INIA-BB BMM2893-2J-1J-300J-1Y-1B-0Y-1PTZ-OY			5.0	6.0	7.0
121	IAS202-H567.71 X ALONDRA/H570.71-ERA(2) X IAS58 CMH77A. 277-11B-2Y-1B-2Y-2PTZ-OY			5.0	4.7	8.0
50	CMT-MO X TORIM CM43381-D-1Y-4M-3Y-2M-1Y-0B-1PTZ OY			5.0	6.0	6.0
14	VEERY"S" CM33027-F-12M-1Y-1M-1Y-1M-OY-52B-OY-1PTZ-OY			5.0	3.0	8.0
102	TRIFON"S" F4-5Y-0M-2Y-0Y-1PTZ-OY-1PTZ-OY			5.0	5.0	6.5
62	CHL-BJY"S"(KAL-BB(V09144/VIL. 29 X II. 50. 1B-V0DW)) CM44164-E-1Y-2M-1Y-3M-3Y-1M-OY-1PTZ-OY			5.0	5.3	7.5
44	NEELKANT"S" CM40454-11M-4Y-2M-1Y-0M-1PTZ-OY			5.0	4.0	8.0
89	(KVZ/TOB-CFN X BB)BOLILLO"S" CM3302B-I-1M-3Y-1M-1Y-1M-OY			5.0	6.3	7.0
52	MRS-MO X PLO CM43533-K-2Y-2M-1Y-2M-1Y-1M-OY-1PTZ-OY			5.0	6.3	6.5
175	PINGUINO"S" (DURUM)			5.0	3.3	-----
39	JUPATECO"S"-ALONDRA"S" CM36867-18Y-20M-OY-1PTZ-OY			5.0	4.7	7.0
113	7C-CND X CAL/CHIROCA"S" BMM6665-2M-1Y-1M-2Y-0Y-1PTZ-OY			5.1	7.0	7.0
105	KVZ/INIA"S"-ON X INIA-BB BMM2893-2J-2J-300J-1Y-6B-OY-1PTZ OY			5.1	5.3	7.0
98	II12300-TOB66 X CIANO"S" WITHOUT PEDIGREE			5.1	6.3	7.5
86	PIMA77 X RQ"S"-SOTY/SISKIN"S"-PAVON" CM34709-P-1M-1Y-1M-3Y-1M-2Y-0M			5.1	5.3	6.5
53	JUP-MUS"S"(CND"S"-7C X CND-INIA/TOB) CM43601-C-4Y-1M-3Y-2M-2Y-1M-OY-1PTZ-OY			5.1	5.3	7.5
158	CEP. 76171 = J9198. 67-LV X IAS20-TA08 DES			5.1	5.3	6.0
91	(KVZ/TOB-CFN X BB)BOLILLO"S" CM3302B-I-1M-3Y-1M-1Y-1M-2Y-0M			5.1	6.0	3.5
142	NS. 13-09 = CABD 56-BKA2 MATERIALS FROM AUSSEN I-II			5.1	5.0	5.0
75	C22-TORIM 73 CM36834-25Y-3M-3Y-2M-OY			5.1	6.7	7.5

Table 4 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP S 0-9	SEP T 0-9	SEP N 0-9
			NOBS:	( 11)	( 4)	( 2)
38	JUPATECO"S"-ALONDRA"S" CM36867-18Y-17M-3Y-OM-1PTZ-0Y			5.1	5.0	6.0
140	CEP. 7780(CHECK)			5.1	6.3	6.5
146	HJI-P49. 75 X B. NARUNCURA P1695-300J-1Y-1B-0Y-OPTZ-0Y			5.2	4.0	7.0
119	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-1B-1Y-1PTZ-0Y			5.2	5.0	7.0
124	H567. 71-PEL. ART(3) CMH77. 308-1Y-4B-1Y-1B-3Y-1PTZ-0Y			5.2	4.7	6.5
96	CARTHAGE-ALONDRA II14055-OM-9LD-9LD-1LD-OM			5.2	6.3	5.0
136	IAS20-H567. 71 CMH76. 480-13Y-5B-0Y-2B-0Y-3PTZ- 0Y-OPTZ			5.2	5.0	8.0
160	7 CERROS(CHECK)			5.2	7.7	8.0
90	(KVZ/T0B-CFN X BB)BOLILLO"S" CM33028-I-1M-3Y-1M-1Y-1M-1Y-OM			5.2	6.0	7.5
134	PEL. ART(2)-CMH72A. 429 CMH78. 420-1Y-1B-1Y-1PTZ-0Y			5.2	4.7	7.0
179	D68-10-2A-2A			5.2	5.7	1.0
111	F3. 71-TORIM SWM5704-10Y-1M-3Y-3M-3Y-0B-1PTZ- 0Y			5.3	6.7	7.0
70	TANORI(RESEL)-HUACAMAYO"S" CM39321-16M-1Y-4M-0Y			5.3	7.3	8.0
95	KVZ-J8216. 67-SISKIN"S" CM33030-D-3M-2Y-1M-4Y-3M-1Y-OM			5.3	6.0	7.0
94	KVZ-J8216. 67-SISKIN"S" CM33030-D-3M-2Y-1M-4Y-2M-1Y-OM			5.3	7.0	7.0
133	ALONDRA"S" X ERA(3)-SON64/ALONDRA"S" CMH78. 413-11Y-1B-1Y-1PTZ-0Y			5.3	5.7	4.0
48	CAL X WREN-HS1657/ANAHUAC"S" CM43065-9Y-4M-1Y-2M-2Y-1M-0Y- 1PTZ-0Y			5.3	5.7	7.0
117	PEL. ART-H567. 71 CMH77A. 260-2B-1Y-7B-1Y-1PTZ-0Y			5.3	6.0	8.0
1	7CERROS(CHECK)			5.3	8.0	6.0
7	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-507M-0Y- 1PTZ-0Y-1PTZ-0Y			5.4	7.0	7.0
34	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-OM-30Y-0B- 1PTZ-0Y			5.4	7.0	5.0
93	KVZ-J8216. 67-SISKIN"S" CM33030-D-3T-2Y-1M-4Y-4M-0Y			5.4	6.3	7.0
104	KVZ/INIA"S"-ON X INIA-BB SWM2893-2J-2J-300J-1Y-1B-0Y-1PTZ- 0Y			5.4	6.0	7.0
73	C22-TORIM 73 CM36834-25Y-2M-2Y-1M-0Y			5.4	7.3	7.0
112	F3. 71-TORIM SWM5704-10Y-1M-3Y-3M-3Y-0B-2PTZ- 0Y			5.4	6.3	7.5
49	CNO X YMH-T0B/HUAC"S" CM43330-L-2Y-3M-1Y-1M-1Y-2M-0Y- OPTZ-0Y			5.4	5.7	8.0
159	CNT. 9			5.4	5.7	3.5

Table 4 (con't.).

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEP S 0-9	SEP T 0-9	SEP N 0-9
			NOBS	( 11)	( 4)	( 2)
36	NAD-TOR X PCH/BLT"S"-MES"S" CM34726-F-2M-2Y-4M-1Y-OM-82Y-OB-1PTZ-OY			5.5	7.0	6.0
37	VULTURE"S" CM36064-A-1M-1Y-OM-1PTZ-OY			5.5	7.0	6.0
176	ZENATI BOUTEILLE (DURUM)			5.5	5.0	-----
97	CARTHAGE-ALONDRA II14055-OM-5LD-2OLD-1LD-OM			5.5	7.0	7.0
29	SUNBIRD"S" CM34630-D-1M-9Y-6M-2Y-1M-OY-1PTZ OY			5.5	5.5	7.0
116	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-2Y-4PTZ-OY			5.5	5.7	8.0
125	PEL. ART-HE. 1 CMH7B. 363-1Y-1B-1Y-1PTZ-OY			5.5	5.7	6.5
74	C22-TORIM 73 CM36834-25Y-3M-3Y-1M-OY			5.6	7.3	7.0
54	JUP-MUS"S" (CNO"S"-7C X CNO-INIA/TOB) CM43601-K-3Y-3M-6Y-2M-1Y-OB-2PTZT OY			5.6	4.3	7.0
78	HORK"S"-GRAJO"S" CM42844-27Y-3M-3Y-OM			5.6	5.3	7.5
40	INIA66 (CHECK)			5.6	7.7	7.0
59	JUP-MUS"S" (CNO"S"-7C X CNO-INIA/TOB) CM43601-K-3Y-3M-7Y-2M-OY-1PTZ-OY			5.7	3.7	6.0
137	TORIM73-PEL. ART CMH76A. 947-1B-1Y-2F-OY-4B-1Y-1PTZ-OY			5.7	7.3	7.5
77	HORK"S"-GRAJO"S" CM42844-27Y-3M-2Y-OM			5.7	5.7	7.0
57	JUP-MUS"S" (CNO"S"-7C X CNO-INIA/TOB) CM43601-K-3Y-3M-7Y-1M-OY-1PTZ-OY			5.7	4.0	7.0
56	JUP-MUS"S" (CNO"S"-7C X CNO-INIA/TOB) CM43601-K-3Y-3M-6Y-5M-1Y-OB-1PTZT OY			5.7	4.7	6.0
114	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-1Y-2PTZ-OY			5.7	6.0	8.0
109	COC X RBS-63. 11666. 2 SWM5106-9Y-1M-1Y-1M-1Y-1M-OY-1PTZ-OY			5.8	4.3	8.0
110	F3. 71-TORIM SWM5704-10Y-1M-3Y-3M-2Y-3M-OY-1PTZ-OY			5.8	5.7	7.5
120	LERMA ROJO64 (CHECK)			5.8	8.0	8.5
127	H567 71-PEL. ART X ALONDRA"S" CMH7B. 384-1Y-5B-1Y-2PTZ-OY			5.8	7.3	6.0
126	H567 71-PEL. ART X ALONDRA"S" CMH7B. 384-1Y-5B-1Y-1PTZ-OY			5.9	7.3	5.0
58	JUP-MUS"S" (CNO"S"-7C X CNO-INIA/TOB) CM43601-K-3Y-3M-7Y-1M-OY-4PTZ-OY			5.9	4.0	7.0
79	S12-BB X PJ62/PAVON"S" CM40597-7M-2Y-3M-1Y-OM			6.1	5.0	7.5
55	JUP-MUS"S" (CNO"S"-7C X CNO-INIA/TOB) CM43601-K-3Y-3M-6Y-4M-1Y-OB-1PTZT OY			6.2	5.0	7.0
80	SONORA64 (CHECK)			6.2	8.3	7.0

**Table 5. Top performance entries: Leaf rust**

VTV NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	LEAF RUST	STEM RUST	STRP RT. L	NOBS:		
							( 6 )	( 6 )	( 8 )
77	HORK"S"-GRAJO"S" CM42844-27Y-3M-2Y-OM			0.0	2.5	2.7			
114	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-1Y-2PTZ-OY			0.0	2.2	7.4			
115	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-2Y-2PTZ-OY			0.0	2.2	4.2			
26	BOBWHITE"S" CM33203-K-9M-24Y-1M-1Y-1M-2Y-OM- 1PTZ-OY			0.0	2.2	1.7			
117	PEL. ART-H567. 71 CMH77A. 260-2B-1Y-7B-1Y-1PTZ-OY			0.0	33.3	10.4			
116	CMH77A. 754-PEL. ART CMH77. 204-1Y-2B-4Y-1B-2Y-4PTZ-OY			0.0	2.2	4.5			
119	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-1B-1Y-1PTZ-OY			0.0	16.8	1.7			
64	CAR853-COCORAQUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-1PTZ- OY			0.0	2.3	1.8			
66	CAR853-COCORAQUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-3PTZ- OY			0.0	20.0	1.7			
122	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-3B-1Y-2PTZ-OY			0.0	2.2	1.7			
31	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-OM-2PTZ-OY			0.0	11.2	1.6			
30	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-OM-1PTZ-OY			0.0	11.2	1.6			
65	CAR853-COCORAQUE X VEERY"S" CM47556-EE-1M-1Y-2M-1Y-0Y-2PTZ- OY			0.0	20.0	1.6			
32	SUNBIRD"S" CM34630-D-5M-5Y-3M-1Y-OM-3PTZ-OY			0.0	20.0	1.6			
41	JUP"S"-ZOPILOTE X COCORAGUE"S" CM37614-B-14Y-4M-1Y-OM-OPTZ-OY			0.0	2.2	3.1			
37	VULTURE"S" CM36064-A-1M-1Y-OM-1PTZ-OY			0.1	19.0	17.7			
108	FLN-ACC X ANAHUAC BMM457B-56M-3Y-1Y-OM-OPTZ-OY			0.1	1.9	20.0			
168	KVZ X ANE-MY64/PF. 70354 B13977-A-1Z-5A-0A-1PTZ-OY			0.1	20.0	25.9			
123	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-3B-3Y-2PTZ-OY			0.1	16.8	3.9			
121	IAS202-H567. 71 X ALONDRA/H570. 71- ERA(2) X IAS58 CMH77A. 277-11B-2Y-1B-2Y-2PTZ-OY			0.1	17.1	1.7			
140	CEP. 7780(CHECK)			0.1	26.7	24.3			
78	HORK"S"-GRAJO"S" CM42844-27Y-3M-3Y-OM			0.2	2.9	2.5			
60	PAT. 73121(CHECK)			0.2	20.8	34.1			
83	YECORA70-TRIFON"S" CM36749-10Y-3M-5Y-3M-4Y-OM			0.2	40.0	2.3			
135	(IAS20-H567. 71 X IAS20/ALONDRA"S") (IAS20-H567. 71 X IAS20/PEL. ART) CMH78A. 44B-9B-2Y-2PTZ-OY			0.2	1.9	19.7			

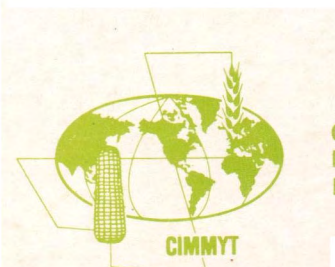
Table 5 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	LEAF RUST	STEM RUST	STRP RT. L	NOBS:		
							( 6 )	( 6 )	( 8 )
118	IAS204-H567.71 CMH77A.275-8B-3Y-1B-3Y-2PTZ-OY			0.2	21.8	24.2			
50	CMT-MO X TORIM CM433B1-D-1Y-4M-3Y-2M-1Y-0B-1PTZ OY			0.2	2.2	1.7			
128	IAS202-H567.71 X IAS58 CMH78.390-2Y-2B-1Y-1PTZ-OY			0.2	7.2	26.7			
129	IAS20-H567.71 X IAS204 CMH78.409-3Y-5B-1Y-1PTZ-OY			0.3	21.3	42.6			
131	IAS20-H567.71 X IAS204 CMH78.409-3Y-7B-1Y-3PTZ-OY			0.3	30.2	27.0			
33	SUNBIRD"S" CM34636-D-5M-5Y-6M-3Y-2M-0Y-1PTZ OY			0.3	2.2	1.7			
6	TZPP2-ANE X INIA/JAR-KVZ CM21335-9Y-3M-1Y-1Y-1Y-0B-2PTZ- OY			0.3	20.1	9.9			
27	BOBWITE"S" CM33203-K-9M-24Y-0M-5Y-0B-1PTZ- OY			0.4	2.2	2.3			
82	YECORA70-TRIFON"S" CM36749-10Y-3M-5Y-2M-1Y-0M			0.5	30.8	1.7			
147	BARPET-MANANTIAL 4-1-2-2-1-3-OPTZ-OY			0.5	24.0	19.6			
48	CAL X WREN-WS1697/ANAHUAC"S" CM43065-9Y-4M-1Y-2M-2Y-1M-0Y- 1PTZ-OY			0.5	2.2	5.7			
20	CEP.7780			0.7	20.0	29.3			
102	TRIFON"S" F4-5Y-0M-2Y-0Y-1PTZ-OY-1PTZ-OY			0.8	17.7	3.0			
169	KVZ X ANE-MY64/PF.70354 B13977-A-1Z-5A-0A-2PTZ-OY			0.8	2.0	22.0			
146	HJI-P69.75 X B.NAMUNCURA P1695-300J-1Y-1B-0Y-OPTZ-OY			1.1	2.5	4.7			
42	BCH"S" X KAL-8B(8B-CNO)(LR64/80N64 X SKE-ANE)CNOJHORK"S" CM38559-A-2Y-2M-1Y-3M-0Y-2PTZ-OY			1.1	16.2	10.4			
132	IAS20-H567.71 X IAS204 CMH78.409-3Y-10B-1Y-1PTZ-OY			1.2	36.8	28.6			
178	PARANA X OS"S"-CR"S"/QTA"S" (DURUM) CD10304-H-6M-2Y-7M-1Y-0M			1.5	24.4	5.5			
157	CEP.7779			1.6	3.8	27.0			
173	GANSO"S" (DURUM)			1.6	24.8	15.4			
180	PAT.73121(CHECK)			1.7	3.9	41.7			
110	F3.71-TORIM SMM5704-10Y-1M-3Y-3M-2Y-3M-0Y- 1PTZ-OY			1.7	16.7	20.0			
45	GOV-AZT X MUS"S" CM41257-I-8M-1Y-1M-1Y-2M-0Y-OPTZ 1PTZ-OY			2.0	2.2	1.7			
167	PEL.72380-ART71 B13374-0M-599Y-101A-101Y-0A-1PTZ OY			2.0	45.0	51.4			
136	IAS20-H567.71 CMH76.480-13Y-5B-0Y-2B-0Y-3PTZ- OY-OPTZ			2.0	46.7	2.6			
85	MONCHO"S"-CONDOR"S" CM36925-3Y-3M-4Y-1M-3Y-0M			2.0	3.9	7.8			
84	MONCHO"S"-CONDOR"S" CM36925-3Y-3M-1Y-1M-1Y-0M			2.1	21.6	30.4			

Table 5 (con't.).

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	LEAF RUST	STEM RUST	STRP RT. L
			NOBS:	( 6)	( 6)	( 8)
176	ZENATI BOUTEILLE (DURUM)			2.2	41.4	16.5
130	IAS20-H367.71 X IAS204 CMH7B. 409-3Y-7B-1Y-1PTZ-0Y			2.2	28.5	29.9
28	BOBWHITE"S" CM33203-N-1M-1Y-1M-1Y-0M-74Y-0B-1PTZ-0Y			2.6	20.0	2.2
70	TANORI (RESEL)-HUACAMAYO"S" CM39321-16M-1Y-4M-0Y			2.8	20.0	8.4
127	H367.71-PEL. ART X ALONDRA"S" CMH7B. 384-1Y-5B-1Y-2PTZ-0Y			2.8	20.8	32.1
99	KVZ-K4500. L. A. 4 SM0176-3M-1Y-10Y-1Y-1M-0Y-0PTZ			2.8	2.2	2.9
8	BUCK BUCK"S" CM31678-R-4Y-2M-500Y-506M-501Y-501M-501Y-0M-0Y			2.8	20.0	2.6
179	D6B-10-2A-2A			2.8	29.6	13.3





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