

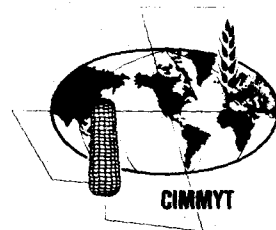
**RESULTS
OF
THE ELEVENTH
INTERNATIONAL
DURUM
SCREENING
NURSERY**

IDSN 1979-80



CENTRO INTERNACIONAL DE MEJORAMIENTO DE MAIZ Y TRIGO
INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER
Londres 40, Apdo. Postal 6-641, México 6, D. F., México

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**GLOSSARY OF VARIABLE NAMES USED IN THE TABLES.
GLOSARIO DE LOS NOMBRES DE LAS 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)
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 (échelle 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 mètre ²
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activité du α 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 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)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (tiges/mètre ²)
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 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	Putréfaction du maïs en pourcentage
SCAB %	Scab percentage	Porcentaje de roña	Fusarium de l'épi en pourcentage
SCLD %	Scald percentage	Porcentaje de escaldadura	Rhynchosporium 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 NODU	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 %	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 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)
TEST WT	Test weight (kg/hl)	Peso hectolítrico (kg/hl)	Poids spécifique (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 11TH INTERNATIONAL DURUM SCREENING NURSERY

(IDSN) 1979-80

The 11th International Durum Screening Nursery (IDSN) was sent in September, 1979 to be grown by cooperators in their spring season of 1980. One-hundred one nurseries went to cooperators in 58 countries. The 169 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.

Sixty of the cooperators receiving the 11th IDSN 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.

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

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
14	AFRICA	KENYA	RIFT VALLEY	5 8
21	AFRICA	NIGERIA	KANO	1 9
39	ASIA	AFGHANISTAN	HERAT	1
48	ASIA	INDIA	MADHYA PRADESH	1 3 4 7 8 9
61	ASIA	PAKISTAN	PUNJAB	3 4 5 7 9 10 14
74	EUROPE	GREECE	THESSALONIKI	1 7 9 14
88	EUROPE	SPAIN	ALCALA DE HENARES	1 9 14
103	MIDDLE EAST	ISRAEL	R. D. SDE-QAT	3 7 9 15
107	MIDDLE EAST	LEBANON	BEKA'A VALLEY	1 3 4 9
119	OCEANIA	NEW ZEALAND	MANAWATU	1
133	NORTH AMERICA	MEXICO	SONORA	1 3 4 9
137	NORTH AMERICA	U. S. A.	CALIFORNIA	1 9 47
143	NORTH AMERICA	U. S. A.	SOUTH DAKOTA	7
153	SOUTH AMERICA	ARGENTINA	BUENOS AIRES	3 4 7 8
158	SOUTH AMERICA	BOLIVIA	COCHABAMBA	1 3 8 9 41
172	SOUTH AMERICA	PERU	LIMA	1 3 4 9
174	AFRICA	ALGERIA	CONSTANTINE	3 9 14
191	AFRICA	LIBYA	TRIPOLI	1 3 4 9
304	AFRICA	SENEGAL	REGION DU FEEUVE SENEGAL	1 3 4 9
310	EUROPE	SPAIN	CADIZ	1 3 4 7 9
334	EUROPE	TURKEY	IZMIR	5 7 8
349	MIDDLE EAST	JORDAN		1 3 7 15
353	OCEANIA	AUSTRALIA	NEW SOUTH WALES	3 55
364	AFRICA	EGYPT		1 3 4 9
368	MIDDLE EAST	CYPRUS	ATHALASSA	1 3 9 15
413	SOUTH AMERICA	ECUADOR	AZUAY	3 5
419	SOUTH AMERICA	CHILE	VALLEMAR	8

*VARIABLE IDENTIFICATIONS

1	YIELD	KG/HA	3	FLOW	DAYS	4	MAT	DAYS	5	STRP	RT. L	7	LEAF	RUST
8	STEM	RUST	9	PLNT	HT	10	LODG	%	14	POWD	%	15	SEPT	TRIT
41	HELM		47	YELL	BERR	55	PROT	%						

Table 2. Summary of means of all variables

VTY NO	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %	POWD %	SEPT TRIT	HELM	YELL BERR	PROT %
		NOBS: (17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
1	GUIL"S" CM-14646-C-1Y-1M-1Y-0Y	3569.2	100.0	137.3	11.5	11.3	11.9	81.2	5.0	17.8	33.3	22.0	70.0	-----
2	GUIL"S" CM-14646-C-1Y-1M-1Y	3638.3	100.4	137.0	11.5	7.9	9.5	81.1	10.0	23.5	37.0	33.0	60.0	-----
3	BIT"S" CM-9799-126M-1M-4Y-0Y-0M	4059.1	97.0	138.4	3.8	8.9	16.7	80.2	10.0	11.8	29.7	22.0	80.0	-----
4	BIT"S" CM-9799-126M-1M-5Y-0Y	3519.3	98.2	138.7	7.7	9.3	13.7	80.5	5.0	0.0	33.3	11.0	50.0	-----
5	RDK"S" CD-1895-12Y-0Y-2E	3974.7	95.4	137.1	8.3	8.4	17.3	83.1	10.0	5.5	29.7	11.0	80.0	-----
6	BOY"S" CD-4404-B-9Y-3M-0Y	4128.1	97.4	137.8	13.7	20.7	12.5	84.3	10.0	23.5	18.7	11.0	80.0	-----
7	SCD"S"-MEXI"S" CD-7917-5M-1Y-1M-0Y	3767.0	93.9	135.2	3.8	10.6	22.2	82.4	5.0	3.3	29.7	22.0	90.0	-----
8	(GS"S"-CR"S" X AA"S"/HO)MEXI"S" CD-8906-13M-5Y-1M-0Y	3620.4	95.1	135.2	7.5	19.2	42.5	83.1	15.0	21.8	14.7	22.0	60.0	12.4
9	KDL"S" CD-10011-14M-2Y-1M-2Y-0M	3997.3	96.6	136.7	0.0	13.5	55.0	79.7	15.0	26.0	26.0	22.0	70.0	12.7
10	KDL"S" CD-10011-23M-3Y-4M-0Y	4132.1	97.7	137.3	7.8	19.3	70.0	84.9	15.0	31.5	29.7	11.0	70.0	13.3
11	ERP"S"-RUSD CD-10437-13M-3Y-0M	3657.4	100.5	140.0	5.0	18.9	60.0	79.7	15.0	31.5	16.5	11.0	5.0	-----
12	ERP"S"-RUSD CD-10437-31M-1Y-2M-1Y-0M	4278.9	99.6	140.5	11.5	14.7	22.1	79.7	5.0	14.3	11.0	22.0	30.0	12.7
13	MEMO"S" CD-10521-I-4M-1Y-3M-1Y-0M	3985.9	94.1	135.8	0.0	15.2	38.1	72.0	10.0	29.5	11.0	11.0	60.0	14.1
14	EIDER"S" CD-10535-D-1M-1Y-1M-2Y-0M	3992.7	100.4	139.2	9.3	13.6	49.6	85.6	10.0	22.3	33.3	11.0	15.0	11.8
15	JD"S"-CR"S" X USA 01679/JD"S"-OR"S" CD-10579-F-6M-1Y-4M-0Y	3668.1	97.2	136.9	0.0	12.5	20.7	78.8	15.0	47.5	18.3	11.0	30.0	11.6
16	MISRI-MEXI"S" X SNIPE"S" CD-10662-F-1M-1Y-2M-1Y-0M	3364.3	99.5	138.5	0.0	10.9	20.5	75.1	20.0	41.3	37.0	22.0	15.0	11.8
17	MISRI-MEXI"S" X SNIPE"S" CD-10662-F-1M-1Y-2M-3Y-0M	3514.6	98.9	139.8	0.0	7.3	22.9	76.3	25.0	37.0	16.5	22.0	20.0	-----
18	STIL"S" CD-16677-A-3M-2Y-0M	3838.0	96.5	137.7	0.7	8.0	21.1	79.6	0.0	16.8	11.0	11.0	30.0	-----
19	STIL"S" CD-16677-A-7M-5Y-0M	3691.6	95.0	136.0	1.0	13.5	17.3	86.9	0.0	11.5	11.0	11.0	90.0	-----
20	JDRIC 69	2996.3	96.6	136.1	6.9	16.0	26.6	80.8	0.0	15.7	25.7	11.0	30.0	13.2

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Table 2. (Continued)

VTY NO.	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	HAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %	POND %	SEPT TRIT	HELM	YELL BERR	PROT %
		NOBS: (17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
21	SWAN"S" CD-16707-H-3M-3Y-0M	4410.0	97.6	137.5	4.8	26.9	45.5	87.5	0.0	36.0	29.3	11.0	60.0	11.5
22	FG"S"-DOM"S" CM-18548-1Y-1Y-1Y-4M-0Y	3702.7	95.9	137.3	5.3	24.0	56.8	74.4	0.0	37.0	16.5	22.0	70.0	12.2
23	WIN"S" CM-18577-11Y-6Y-2Y-0Y	4193.6	93.4	136.0	0.0	22.6	43.5	80.1	0.0	21.5	11.0	11.0	70.0	-----
24	WIN"S" CM-18577-11Y-9Y-0Y	4058.7	93.5	136.4	0.0	20.2	41.8	81.0	0.0	25.5	16.5	22.0	80.0	-----
25	OR"S"-B. CP X ST 464/CR"S" CM-19742-D-5Y-1M-2Y-2Y	3580.4	99.0	138.9	0.0	12.0	32.0	77.6	0.0	26.3	16.5	11.0	90.0	-----
26	CHIS"S" CD-1314-A-1Y-2Y	3823.6	94.8	137.3	20.7	9.9	22.4	83.6	0.0	33.0	37.0	11.0	80.0	11.4
27	MEXI"S"-MAGH"B" CD-3879-29Y-2M-3Y-0M	3001.4	97.0	136.7	5.0	24.0	46.0	76.4	0.0	1.7	22.0	11.0	15.0	12.6
28	GOOSE"S" CM-10143-6M-3Y-1M-2Y-0Y	4167.4	100.3	137.9	4.8	21.8	46.0	86.5	5.0	11.0	22.0	11.0	90.0	-----
29	ERP"S"-RUSD CD-10437-7M-1Y-0M	3452.2	99.4	138.8	5.5	25.1	34.6	79.0	10.0	9.5	11.0	11.0	80.0	-----
30	ENTE"S"-MEXI"S" CD-8153-12M-3Y-4M-1Y-0M	3488.0	97.9	137.8	1.8	17.0	15.5	85.7	5.0	5.5	11.0	11.0	90.0	13.2
31	EIDER"S" CD-10535-D-1M-1Y-4M-1Y-0M	4038.0	100.9	140.4	4.5	17.3	51.7	83.7	0.0	8.3	22.0	11.0	80.0	13.4
32	FRIO"S" CM-17904-B-3M-1Y-1Y	4634.0	94.4	134.1	0.0	13.8	34.3	83.2	0.0	11.5	37.0	11.0	70.0	12.8
33	TEZONTLE"S" CD-10349-U-7M-2Y-1M-0Y	4007.1	95.4	135.1	4.8	14.2	41.8	84.4	5.0	0.0	18.3	11.0	30.0	-----
34	GOOSE"S" CM-10143-19M-2Y-1M-1Y-0Y	3608.7	99.8	137.4	10.6	25.0	39.3	84.3	5.0	3.3	29.3	22.0	70.0	11.1
35	FG"S"-RUFF"S" D-9210-1B	3574.4	96.7	136.2	3.3	19.5	51.0	81.5	0.0	7.0	29.7	11.0	60.0	13.2
36	CIT"S" D-27617	3361.1	98.6	139.2	0.6	12.4	41.7	85.2	0.0	17.0	18.3	22.0	80.0	12.7
37	S15-CR"B" D-33312-7M-2Y-1Y-0Y	3858.3	96.6	137.0	32.0	16.0	20.3	87.3	10.0	16.3	18.3	22.0	80.0	-----
38	S15-CR"B" D-33312-8M-4M-2Y-0M-1B	3737.3	94.8	136.6	2.1	10.4	11.8	87.0	0.0	23.8	22.0	22.0	80.0	14.2
39	ZB. MOLI-M'RARI X S15-CR"B"/MEXI"S" CD-1283-A-4Y-1Y-1M-0Y	2944.9	94.7	135.8	5.0	12.1	15.0	83.4	0.0	12.5	11.0	11.0	90.0	-----
40	CIT 71	3801.3	94.3	134.9	4.8	8.4	24.7	85.4	5.0	16.3	14.7	11.0	90.0	12.9
41	MAL"S" CD-1894-3Y-1Y-0M-1B	3808.3	98.6	137.9	8.2	12.1	18.9	79.9	15.0	15.0	29.7	11.0	100.0	-----
42	MEXI"S"-OTA"S" CD-1896-1Y-3Y-0KE	3773.1	97.2	135.3	0.0	13.8	21.3	77.5	10.0	6.3	33.3	11.0	90.0	11.5
43	MEXI"S"-MAGH"B" CD-3879-29M-1M-0Y-1B	3157.1	97.4	136.2	3.8	26.3	30.7	73.8	0.0	0.0	18.3	11.0	80.0	11.9

VTY NO	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %	POWD %	SEPT TRIT	HELM	YELL BERR	PROT %
		NOBS: (17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
44	MOA"S" CD-3935-1Y-1M-4Y-0M	3448.3	97.4	136.1	6.3	18.5	20.9	83.1	0.0	20.0	18.3	11.0	90.0	-----
45	GTA"S"-TC60 X MEXI"S" CD-4853-E-1Y-1M-0Y	3558.3	96.3	136.2	9.1	13.2	44.3	80.9	0.0	9.5	22.3	11.0	50.0	11.4
46	GTA"S"-TC60 X MEXI"S" CD-4853-E-1Y-1M-0Y	3969.9	96.2	135.5	14.0	19.2	50.2	83.5	0.0	8.8	26.0	11.0	70.0	11.9
47	BD 2014-RABI"S" CD-9574-1B	3949.6	101.1	136.8	12.0	12.2	26.8	82.1	0.0	17.5	18.7	11.0	100.0	13.8
48	HD 4500-FG"S" X CR"S"-GS"S" CD-13923-C-1Y-1M-0Y	3519.6	99.1	138.8	13.8	7.8	28.8	87.3	5.0	17.5	22.0	22.0	100.0	-----
49	KRANICH"S" CM-199-29M-1Y-1M-0Y	3205.8	96.2	135.6	0.0	14.3	25.6	78.8	5.0	35.8	14.7	11.0	90.0	12.5
50	BIT"S" CM-9799-126M-1M-3Y-0Y	3835.3	98.1	137.8	11.8	12.7	12.8	78.9	5.0	15.0	22.0	11.0	80.0	-----
51	BIT"S" CM-9799-126M-1M-3Y-0Y-1B	3699.2	98.8	137.0	8.8	8.9	8.4	82.8	5.0	13.3	14.7	22.0	70.0	-----
52	BIT"S" CM-9799-126M-1M-4Y-0Y	4012.2	97.1	136.7	6.0	10.0	20.3	84.5	5.0	6.3	25.7	11.0	90.0	-----
53	GOOBE"S" CM-10143-19M-2Y-1M-1Y-0Y 1072	4127.7	100.1	137.1	3.8	13.6	30.0	87.4	5.0	7.5	25.7	11.0	90.0	11.8
54	LOON"S" CM-14528-C-1Y-1M-0Y	3913.2	97.5	137.7	6.0	10.3	14.3	86.4	0.0	8.8	25.7	22.0	50.0	13.0
55	OYCA"S" CM-14562-J-500Y-1M-3Y-1Y-0Y	2830.2	96.8	135.9	2.0	17.2	53.5	76.6	0.0	25.3	29.7	11.0	90.0	11.8
56	KIF"S" CM-14662-A-10Y-1M-3Y	3954.2	96.6	136.6	7.3	19.2	60.0	84.0	0.0	12.0	26.0	22.0	80.0	12.3
57	KIF"S" CM-14662-D-14Y-3M-1Y-1Y-0Y	3219.4	98.4	138.5	0.0	18.4	62.0	86.5	0.0	10.8	22.3	11.0	90.0	11.8
58	HERON"S" CM-17747-C-1M-5Y	3621.3	100.6	139.8	1.0	14.2	31.0	85.0	5.0	15.8	25.7	11.0	30.0	12.8
59	FRIG"S" CM-17904-B-3M-1Y	4235.2	96.7	137.4	0.0	20.3	29.2	82.8	0.0	31.0	33.3	22.0	50.0	12.5
60	MEXI 75	3868.1	92.5	134.9	14.5	30.7	15.9	85.2	0.0	6.3	29.7	22.0	90.0	11.3
61	RUFF"S"-GTA"S" CM-18595-6Y-1Y-0Y	3335.2	95.5	138.2	0.3	14.9	32.5	76.0	0.0	17.0	33.3	11.0	30.0	-----
62	WIN"S" CM-18577-11Y-7Y-1Y-1M-0Y-0KE	4569.1	97.1	138.5	0.0	16.5	43.5	86.0	0.0	21.0	33.3	11.0	50.0	-----
63	SCO"S" D-27625	3223.8	97.0	137.5	1.7	19.6	66.2	82.6	0.0	36.8	22.0	11.0	70.0	-----
64	DURO 3-IBIS"S" X 1150-MR 59 F4 LAMB-2Y-1M	3632.3	95.4	136.4	6.5	21.9	46.0	82.2	0.0	24.8	3.7	22.0	40.0	11.4
65	LOON"S" CM-14528	3997.5	96.6	138.2	5.3	14.3	29.2	84.2	0.0	26.0	11.0	22.0	30.0	12.5
66	ALGERIAN 86	4198.6	94.9	136.8	0.0	10.5	7.5	84.6	5.0	24.3	11.0	22.0	80.0	10.1
67	ALGERIAN 88	3281.1	100.5	137.5	16.0	15.8	48.0	82.1	0.0	22.0	18.3	22.0	5.0	-----

Table 2. (Continued)

VTY NO	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODGE %	POWD %	SEPT TRIT	HELM	YELL BERR	PROT %
		NOBS: (17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
68	NJORD 231	4236.4	96.6	136.0	1.7	14.2	27.2	82.7	10.0	6.3	29.3	22.0	70.0	11.8
69	MAL"S" CD-1894-18Y-0Y	3698.6	96.8	135.6	6.0	16.5	12.3	82.5	0.0	19.0	25.7	22.0	90.0	-----
70	SNIFE"S" CM-13414-1Y-3M-0Y	3811.5	98.2	139.0	10.5	13.0	13.0	78.1	0.0	25.8	26.0	11.0	20.0	11.1
71	ENTE"S"-MEXI"S" CD-8153-12M-6Y-4M-0Y	3950.5	100.0	136.8	1.7	20.1	47.0	81.8	10.0	24.0	22.0	22.0	50.0	13.2
72	DURO 73-IBIS"S" X OYCA"S" CD-17916-11Y-18M-0Y	3872.7	93.8	135.8	7.2	18.4	34.8	79.0	0.0	20.8	33.3	22.0	100.0	11.1
73	RUFF"S"-MEXI"S" X SNIFE"S" CD-18130-5Y-1M-0Y	4031.1	97.2	138.7	9.3	10.6	13.8	81.9	10.0	13.3	18.3	11.0	20.0	11.5
74	GUIL"S"-MEXI 75 X USA 0575 CD-19576-F-3M-7M-0Y	3897.6	99.2	139.1	6.0	17.4	14.0	81.1	10.0	4.5	25.7	11.0	10.0	12.7
75	GUIL"S"-MEXI 75 X USA 0575 CD-19576-F-3Y-7M-0Y	3711.9	99.8	138.9	17.5	21.2	6.8	81.1	10.0	7.0	22.0	11.0	20.0	12.2
76	GUIL"S"-MEXI 75 X USA 0575 CD-19576-G-1Y-1M-0Y	4164.1	104.1	140.8	24.0	11.6	13.5	89.8	10.0	7.0	11.0	11.0	15.0	12.0
77	MAL"S"-KIF"S"/RUFF"S"-ELB 6304.3.B X RABI"S" CD-19593-A-4Y-5M-0Y	2897.6	99.4	138.5	2.0	12.9	50.0	79.3	5.0	2.5	22.0	22.0	20.0	12.5
78	[[JO"S"/LKE-LD 390 X CH 67]CR"S"]IB S"S"]USDA 0580 CD-19608-A-3Y-1M-0Y	4356.0	100.6	138.9	5.5	17.6	41.7	80.9	0.0	8.8	25.7	22.0	15.0	12.5
79	GAD"S"-SNIFE"S" X OEDIZ"S" CD-19646-A-7Y-1M-0Y	4210.3	99.9	138.6	4.0	21.5	35.0	81.4	5.0	7.5	29.7	33.0	60.0	12.2
80	GUIL"S" CM-14646-C-1Y-1M-1Y-0Y	3949.2	101.1	138.2	24.3	15.4	11.3	82.3	0.0	13.3	33.3	33.0	60.0	-----
81	GAD"S"-SNIFE"S" X OEDIZ"S" CD-19646-A-7Y-5M-0Y	4014.1	99.9	137.9	4.1	16.0	27.5	82.0	10.0	3.3	40.7	22.0	40.0	-----
82	SCA"S"-KIF"S" X AQ ELDNO-TAC.0Y CD-19675-C-6Y-1M-0Y	3645.4	95.9	137.0	44.3	16.8	6.5	81.8	10.0	3.3	29.7	11.0	60.0	12.7
83	GUIL"S"-SNIFE"S" X QDO VZ 449 CD-19711-D-1Y-3M-0Y	4135.1	98.9	136.9	7.0	21.1	36.7	84.5	5.0	23.0	33.3	22.0	90.0	12.9
84	DOM"S" X CR"S"(2)-QB"S"/BCD"S" CD-19743-C-6Y-2M-0Y	3826.9	98.9	137.2	15.3	16.7	46.8	86.3	20.0	11.3	26.0	11.0	90.0	11.9
85	DACK"S"-TAG. B. B/D67.3-OTA"S" X COOT" "-MEXI"S" CD-18924-A-3Y-1M-0Y	4162.8	98.2	138.3	8.0	11.7	20.0	83.0	0.0	7.5	37.0	33.0	100.0	-----
86	BOY"S"-SNIFE"S" X OEDIZ"S"-CORM"S" CD-19832-A-5Y-1M-0Y	3636.8	102.8	140.3	32.7	8.9	3.2	79.1	5.0	12.5	22.0	33.0	60.0	12.0
87	FO"S"-DOM"S" X KIF"S" CD-13387-24M-1Y-4M-0Y	3709.6	98.3	138.1	18.0	21.9	16.2	82.6	10.0	15.0	29.3	22.0	30.0	11.1
88	TEAL"S"-WIN"S" X GAD"S" CD-16467-A-5M-1Y-1M-0Y	3505.7	96.6	136.7	13.2	14.6	19.2	82.0	0.0	12.0	14.7	22.0	10.0	12.4
89	TEAL"S"-WIN"S" X GAD"S" CD-16467-A-5M-1Y-2M-0Y	3679.5	96.4	137.3	21.5	12.2	18.0	84.1	0.0	6.3	22.0	22.0	80.0	-----
90	[CR"S"-USA 02299(INRAT 69-OR"S" X BO"S"/RABI"S)]GAD"S" CD-16472-A-4M-3Y-2M-0Y	3725.3	96.2	135.6	15.0	17.6	37.5	78.1	0.0	12.0	37.0	22.0	70.0	13.1

VTY NO	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %	POWD %	SEPT TRIT	HELM	VELL BERR	PRGT %
		NOBS: (17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
91	[CR"S"-USA 02299(INRAT 69-QR"S" X BO"S"/RABI"S")JGAD"S" CD-16472-A-6M-3Y-1M-0Y	3655.5	96.4	136.0	14.5	11.4	14.0	84.1	5.0	8.8	25.7	33.0	80.0	13.0
92	MAQH 72-FQ"S" X CR"S"-USA 02299 CD-16524-A-4M-4Y-1M-0Y	4141.6	99.1	138.7	25.0	8.3	9.6	91.0	5.0	12.0	14.7	22.0	80.0	-----
93	[LDS MUT-GTA"S"(INRAT 69-QR"S" X BO" "/RABI"S")JFUL"S" CD-16548-D-12M-7Y-4M-0Y	3275.6	100.3	139.7	9.0	6.1	30.9	84.5	5.0	12.5	25.7	11.0	70.0	-----
94	STIL"S" CD-16677-A-2M-1Y-4M-0Y	4099.5	95.9	136.2	20.3	10.2	10.4	89.1	5.0	17.5	25.7	22.0	80.0	12.3
95	DVI 65-CP X FQ"S"/RUFF"S"-FQ"S" CD-16696-E-1M-2Y-1M-0Y	3245.9	96.8	136.2	3.0	6.2	5.5	77.6	0.0	6.3	22.0	22.0	5.0	13.6
96	GEDIZ"S"-FQ"S" X GTA"S" CD-16706-B-8M-3Y-3M-0Y	3511.5	95.9	135.6	6.2	12.2	48.5	80.1	0.0	16.3	22.0	22.0	30.0	13.1
97	SWAN"S" CD-16707-A-1M-1Y-2M-0Y	3702.3	97.9	137.1	8.3	12.4	6.0	82.2	5.0	5.8	22.0	22.0	40.0	-----
98	SWAN"S" CD-16707-E-1M-2Y-3M-0Y	3418.7	97.5	135.5	0.1	19.5	7.7	79.1	0.0	8.8	26.0	44.0	50.0	13.1
99	SWAN"S" CD-16707-Q-7M-4Y-4M-0Y	3659.2	102.4	139.7	1.3	7.1	6.8	81.0	0.0	5.8	18.3	22.0	80.0	13.9
100	BIT"S" CM-9799-126M-1M-4Y-0Y-0M	3815.8	98.1	137.5	10.0	7.0	11.8	82.2	0.0	8.8	25.7	22.0	30.0	-----
101	[(MAQH"S" X QS"S"-AA"B"/GTA"S"-CIT"B D6811)KIF"S" CD-16792-B-2M-2Y-1M-0Y	3851.9	98.1	136.6	8.3	19.9	53.3	83.5	0.0	12.5	33.3	33.0	30.0	13.1
102	(PLC"S" X SALTI AUTMA-HITI/FQ"S")MEX I 75 CD-16895-A-3M-2Y-3M-0Y	4003.8	95.0	135.7	12.0	13.0	11.5	81.9	5.0	4.5	33.3	44.0	90.0	11.8
103	GTA"S"-RABI"S" X USA IV 718/SCD"S" CD-16906-H-3M-2Y-7M-0Y	4009.9	95.9	135.9	6.8	10.7	68.3	81.2	5.0	21.8	33.3	22.0	20.0	-----
104	GTA"S"-RABI"S" X MEXI"S"/JO"S"-CR"S" CD-16907-B-1M-1Y-3M-0Y	3909.3	101.0	137.5	0.5	15.3	64.0	83.9	5.0	11.3	18.3	-----	60.0	-----
105	FUL"S"-FQ"S"/DYCA"S" X RUFF"S"-FQ"S" CD-17305-A-3M-1Y-1M-0Y	3599.2	98.1	137.3	9.8	8.4	44.1	79.2	5.0	0.0	22.0	33.0	15.0	13.3
106	ERP"S"-RUSD CD-10437-8Y-1M-2Y-3M-0Y	3539.1	102.0	138.6	8.2	16.3	38.4	86.8	10.0	1.3	29.7	33.0	90.0	12.9
107	CR"S"-USA 02299 X CR"S"-QS"S" CD-11823-4Y-3M-1Y-1M-0Y	3294.6	103.0	140.6	4.0	22.8	55.1	84.6	15.0	37.3	11.0	33.0	50.0	-----
108	FUL"S"-USA 0887 CD-12345-7Y-5M-5Y-3M-0Y	4001.4	94.8	136.2	18.5	21.8	48.3	88.8	10.0	28.5	22.0	33.0	70.0	-----
109	DACK"S"-RABI"S" CD-12498-6Y-4M-2Y-1M-0Y	4019.1	97.8	138.5	4.3	20.9	42.1	86.5	5.0	34.8	22.0	33.0	1.0	14.1
110	DACK"S"-KIWI"S" CD-12499-6Y-1M-1Y-2M-0Y	4179.5	99.6	137.6	7.0	7.5	42.5	91.2	0.0	20.0	25.7	22.0	5.0	13.3
111	DACK"S"-KIWI"S" CD-12499-8Y-1M-4Y-1M-0Y	3464.7	101.5	139.3	12.7	8.0	43.0	84.2	5.0	26.3	37.0	22.0	20.0	-----
112	DACK"S"-KIWI"S" CD-12499-9Y-2M-3Y-1M-0Y	3495.6	101.8	139.4	4.4	11.5	34.3	82.9	5.0	24.0	29.3	22.0	30.0	-----
113	USA 0610-FQ"S" X FQ"S"(2)-RUFF"S" CD-14119-E-7Y-1M-2Y-3M-0Y	3704.8	99.5	138.4	14.3	15.8	25.2	83.2	0.0	11.3	18.3	22.0	-----	14.2

Table 2. (Continued)

VTY NO	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT L	LEAF RUST	STEM RUST	PLNT HT	LODG %	POWD %	SEPT TRIT	HELM	YELL BERR	PROT %
		(17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
114	TAQ B. B-HD/FG"S"-PALEST. X MEXI"S"-RUFF"S" CD-14162-A-1Y-1M-1Y-2M-0Y	3713.7	97.7	136.4	22.0	20.8	50.4	86.3	0.0	14.3	25.7	22.0	70.0	12.4
115	BD 2013-RABI"S" X IBIS"S"-CP CD-14343-A-3Y-1M-1Y-1M-0Y	3355.5	97.1	138.5	10.3	11.6	40.0	77.1	0.0	34.3	29.7	56.0	40.0	13.7
116	FG"S"-AA"S" X MAL"S"-MARIO"S" CD-14472-D-1Y-1M-1Y-3M-0Y	3658.9	100.6	139.3	18.5	11.6	17.9	81.9	5.0	1.3	22.0	22.0	15.0	12.9
117	TUBEND"S" CD-7849-3M-1Y-5M-2Y-1M-0Y	3453.9	97.9	138.3	13.7	9.3	9.3	78.4	0.0	13.8	18.3	22.0	5.0	12.6
118	TUBEND"S" CD-7849-3M-1Y-5M-2Y-2M-0Y	3371.3	98.2	138.2	14.2	12.8	7.4	77.7	0.0	18.8	11.0	33.0	5.0	12.3
119	TUBEND"S" CD-7849-3M-3Y-4M-1Y-1M-0Y	3376.8	99.2	138.5	8.0	7.5	4.9	77.2	0.0	14.5	11.0	22.0	15.0	12.4
120	PAVON 76 (BW)	4099.4	96.9	136.2	36.3	5.4	4.5	87.8	0.0	18.3	22.0	11.0	10.0	-----
121	PQ"S"-CIT"S" CD-8142-3M-3Y-1M-1Y-1M-0Y	3103.1	100.8	141.0	0.7	4.3	19.2	84.9	0.0	1.3	11.0	22.0	90.0	11.1
122	ENTE"S"-MEXI"S" CD-8153-12M-3Y-1M-2Y-1M-0Y	3124.7	101.6	139.8	11.5	8.2	10.0	88.6	5.0	1.3	0.0	44.0	80.0	13.6
123	ODO V2 578-GTA"S" CD-8544-26M-4Y-1M-1Y-2M-0Y	3159.1	104.6	144.3	0.2	4.3	10.4	91.3	0.0	1.3	18.3	33.0	90.0	-----
124	SCAR"S"-ODO V2 579 CD-9885-5M-2Y-1M-3Y-1M-0Y	3261.7	103.3	142.1	0.1	10.3	10.2	91.9	5.0	1.3	11.0	22.0	80.0	14.1
125	ATO"S" X AA"S"-PLC"S"/D67.2 CD-10023-3M-4Y-1M-1Y-1M-0Y	3694.8	97.9	138.1	0.0	8.8	37.1	82.5	0.0	8.8	37.0	33.0	90.0	11.8
126	ATO"S" X AA"S"-PLC"S"/D67.2 CD-10023-3M-4Y-4M-1Y-1M-0Y	3681.0	97.7	137.3	1.2	10.6	43.8	86.9	0.0	10.8	40.7	44.0	90.0	-----
127	ERP"S"-RUSD CD-10437-13M-3Y-1M-2Y-2M-0Y	4064.0	102.1	140.2	4.0	7.3	42.1	83.4	0.0	21.3	29.7	33.0	15.0	11.8
128	BO"S"-OS"S" X COOT"S"/RUFF"S"-FQ"S" CD-10454-3M-3Y-6M-3Y-3M-0Y	3345.3	97.9	134.8	7.5	12.9	13.4	74.7	0.0	8.8	18.3	11.0	10.0	11.5
129	BO"S"-OS"S" X COOT"S"/RUFF"S"-FQ"S" CD-10454-5M-3Y-2M-2Y-2M-0Y	3524.4	97.1	135.0	12.8	7.3	11.1	75.5	0.0	11.3	18.3	56.0	20.0	11.3
130	DURUM 73-IBIS"S" X OYCA"S" CD-17916-5Y-3M-0Y	3335.4	97.8	135.9	22.5	7.9	34.6	71.2	0.0	6.3	22.0	56.0	80.0	11.8
131	MAQH 72	3368.9	93.4	133.7	8.3	24.5	15.0	76.2	10.0	9.5	29.7	33.0	70.0	13.1
132	R143	3718.7	94.8	135.4	0.0	9.8	43.3	72.5	0.0	25.0	33.3	33.0	90.0	-----
133	SCA"S" CM-18537-1Y-0Y-1B	3691.2	99.2	137.6	0.0	5.7	34.2	85.4	5.0	10.8	22.0	44.0	70.0	12.5
134	GTA"S"-S0179 HRL-0Y-1M-0Y	3256.9	99.9	141.1	0.1	19.4	42.0	73.9	0.0	8.8	29.7	44.0	90.0	12.4

VTY NO	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %	POWD %	SEPT TRIT	HELM	YELL BERR	PROT %
		(17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
135	AA"S"-CR"S" X CIT"S" CM-10187-7M-0V-1B	3897.6	95.8	135.7	3.5	6.8	32.5	87.9	15.0	25.0	26.0	33.0	90.0	12.5
136	(CH 67-JD"S" X ILLD"S"/OEDIZ"S")OREB "S" X MEXI"S"-P66/270 CD-19923-B-2Y-1M-0Y	3170.5	98.6	139.0	21.0	10.9	45.0	88.1	10.0	1.3	33.3	33.0	20.0	-----
137	FUL"S"-FQ"S"/DYCA"S" X RUFF"S"-FQ"S" CD-17305-A-5M-1Y-2M-0Y	3100.2	99.6	138.6	18.5	11.5	42.0	77.1	0.0	7.5	33.3	56.0	5.0	-----
138	FUL"S"-FQ"S"/DYCA"S" X RUFF"S"-FQ"S" CD-17305-A-5M-4Y-1M-0Y	3386.2	99.6	138.6	14.0	8.6	46.0	78.4	0.0	0.0	33.3	56.0	-----	12.6
139	YEL"S"/RABI"S"-KOCABAS 10 X CH 67- JD"S" CD-18303-13V-3M-1Y-0M	3640.3	97.0	137.7	13.3	14.3	46.7	80.4	0.0	24.3	33.3	44.0	30.0	11.1
140	NACDZARI 76	4553.1	92.4	134.7	29.7	27.1	10.5	86.3	0.0	13.8	40.7	67.0	15.0	-----
141	CORM"S"-DIENTE DE CAMELLO (EP) CD-18323-5Y-3M-1Y-0M	2729.4	100.5	140.7	23.5	24.4	50.4	78.8	0.0	8.8	22.0	33.0	100.0	-----
142	AG ELONG X TAC-0Y/S15-JD"S" CD-18433-8Y-2M-3Y-0M	3680.6	101.3	139.8	8.0	13.6	12.2	87.8	10.0	3.3	29.3	56.0	90.0	-----
143	GTA"S"-PG"S"/BD 1814 X BD 1708-BD 13 3 CD-18532-10Y-5M-2Y-0M	4172.1	101.0	139.9	20.7	10.2	39.5	91.1	10.0	5.8	18.3	44.0	70.0	-----
144	GTA"S"-PG"S" X USDA 580 CD-18533-3Y-2M-2Y-0M	3524.1	100.9	139.5	5.5	6.9	2.6	91.0	20.0	10.0	29.7	44.0	5.0	-----
145	GTA"S"-PG"S" X USDA 580 CD-18533-14Y-1M-2Y-0M	3557.9	102.6	139.9	12.0	13.3	8.2	90.0	20.0	10.0	22.0	33.0	20.0	-----
146	(GFN-QLL"S" X SAPI"S"/FRIO"S")CORM"S CD-19858-B-2Y-1M-0Y	3761.4	97.5	135.8	20.5	22.0	53.3	78.6	5.0	14.5	37.0	44.0	20.0	12.1
147	OYCA"S" X 000 VZ 394-CIT"S" CD-17717-5Y-3M-1Y-0M	3232.7	97.1	136.4	9.5	18.0	41.7	75.7	10.0	24.5	14.7	56.0	70.0	11.1
148	DURO 73-IBIS"S" X OYCA"S" CD-17916-5Y-4M-2Y-0M	3746.6	96.7	136.0	8.0	16.7	30.0	75.3	0.0	10.8	33.3	44.0	80.0	12.3
149	DURO 73-IBIS"S" X OYCA"S" CD-17916-11Y-3M-1Y-0M	3972.5	92.7	134.6	5.0	17.0	41.7	74.0	0.0	21.3	26.0	56.0	90.0	-----
150	(S15 X T. DIC-QLL"S"/PLC"S")SNIPE"S" CD-18215-7Y-3M-1Y-0M	3614.3	93.1	135.0	1.6	10.3	34.0	71.1	0.0	26.3	26.0	33.0	100.0	11.5
151	(CR"S"-OS"S" X P66/270/FQ"S")RUFF"S" FQ"S" CD-19321-C-1Y-6M-1Y-0M	3441.8	101.1	137.3	2.8	5.3	5.0	85.1	15.0	16.3	11.0	33.0	80.0	12.5
152	(CR"S"-OS"S" X PARANA/CR"S"(2)-OS"S" IBIS"S"-DURUM6 CD-19922-G-3Y-1M-8Y-0M	3442.1	99.1	135.3	3.0	11.7	25.2	89.2	10.0	17.5	37.0	22.0	80.0	12.5
153	QUIL"S"-MEXI 75 X USDA 0575 CD-19576-F-3Y-3M-1Y-0M	3517.0	96.6	134.3	5.5	17.5	6.6	79.5	0.0	15.0	33.3	56.0	5.0	-----
154	WIN"S"-USA 02237 X 0AD"S" CD-16559-C-7M-2Y-3M-1Y-0M	3969.9	100.5	136.0	6.0	13.6	6.2	87.8	5.0	6.3	29.7	56.0	80.0	11.9
155	STIL"S" CD-16677-A-2M-3Y-1M-3Y-0M	4088.1	98.9	135.0	15.8	15.4	8.2	81.6	5.0	3.3	25.7	56.0	50.0	12.3
156	(PLC"S" X SALT I AUTHA-HITI/FQ"S")MEX I 75 CD-16895-H-4M-1Y-2M-1Y-0M	3564.9	98.9	135.0	0.0	15.4	24.3	78.7	0.0	6.0	22.0	56.0	60.0	-----

Table 2. (Continued)

VTY NO	VARIETY OR CROSS AND PEDIGREE	YIELD KG/HA	FLOW DAYS	MAT DAYS	BTRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %	POWD %	SEPT TRIT	HELM	YELL BERP	PROT %
		(17)	(17)	(10)	(4)	(9)	(6)	(17)	(1)	(4)	(3)	(1)	(1)	(1)
157	OYCA"S"-MAGH"S" X RUFF"S"-FQ"S" CD-16913-B-2M-2Y-3M-3Y-0M	4133.1	98.1	134.7	10.0	8.6	9.2	82.1	0.0	3.5	14.7	44.0	15.0	12.9
158	OYCA"S"-MAGH"S" X RUFF"S"-FQ"S" CD-16913-B-2M-2Y-3M-4Y-0M	4384.3	97.2	133.3	9.0	13.8	5.4	81.1	0.0	6.3	22.0	33.0	40.0	12.4
159	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-1Y-0M	3354.1	95.4	131.1	9.0	5.4	2.8	79.2	0.0	6.3	26.0	33.0	80.0	12.3
160	MAPACHE (TCL)	4352.7	91.6	130.6	0.0	11.5	0.1	100.1	0.0	0.0	11.0	22.0	-----	-----
161	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-2Y-0M	3294.1	95.5	130.9	11.3	4.3	0.9	79.2	5.0	3.3	7.3	22.0	5.0	12.3
162	WIN"S"-AA"S" CD-12454-3Y-11M-1Y-2M-1Y-0M	4085.0	94.0	130.4	12.8	19.3	25.8	104.4	5.0	24.0	16.5	22.0	15.0	13.3
163	RALLE"S" X CH 67-21563/RUFF"S"-FQ"S" CD-13228-15Y-2M-1Y-2M-1Y-0M	3294.4	99.9	135.3	21.8	8.4	8.0	83.1	5.0	36.0	18.3	22.0	15.0	-----
164	USA 0640-FQ"S" X FQ"S"(2)-RUFF"S" CD-14119-E-7Y-1M-2Y-1Y-0M	3548.3	99.3	134.7	5.2	5.3	3.2	84.0	5.0	29.3	22.0	33.0	2.0	-----
165	HERON"S" CH-17747-C-7M-2Y-1B	3276.5	104.8	137.7	1.0	7.0	21.3	86.5	5.0	23.0	22.0	22.0	5.0	14.1
166	CH 67 X JD"S"-CR"S" CH-12857-10Y-2M-1Y-0Y	3655.6	98.8	133.1	6.0	13.9	30.6	85.5	0.0	40.5	18.3	22.0	90.0	12.2
167	(QR"S"/CP-ST 464 X CR"S")PLC"S" CH-17800-E-6M-2Y-0Y	3538.5	98.8	134.4	8.3	7.9	29.2	79.2	20.0	34.0	29.7	33.0	70.0	13.1
168	FRIGATE"S" CH-17904-D-3M-1Y-0Y	4350.1	94.8	132.0	8.3	10.8	29.2	88.9	0.0	23.5	22.0	22.0	80.0	-----
169	CR"S"-USA 02299 CH-18882-2Y-0Y	4233.0	99.4	133.2	2.5	14.6	36.7	79.8	0.0	55.0	40.7	11.0	20.0	13.2

Table 3. Top performance entries: Yield

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	STRP RT. L	LEAF RUST	STEM RUST	POWD %	SEPT TRIT	YELL BERR
				NOBS: (17)	(4)	(9)	(6)	(4)	(3)	(1)
32	FRIG"S" CM-17904-B-3M-1Y-1Y			4634.0	0.0	13.8	34.3	11.5	37.0	70.0
62	WIN"S" CM-18577-11Y-7Y-1Y-1M-0Y-0KE			4569.1	0.0	16.5	43.5	21.0	33.3	50.0
140	NACQZARI 76			4553.1	29.7	27.1	10.5	13.8	40.7	15.0
21	SWAN"S" CD-16707-H-3M-3Y-0M			4410.0	4.8	26.9	45.5	36.0	29.3	60.0
158	OYCA"S"-MAGH"S" X RUFF"S"-FQ"S" CD-16913-B-2M-2Y-3M-4Y-0M			4384.3	9.0	13.8	5.4	6.3	22.0	40.0
78	[[{JO"S"/LKE-LD 390 X CH 67}CR"S"JIB S"S"JUSDA 0980 CD-19608-A-3Y-1M-0Y			4356.0	5.5	17.6	41.7	8.8	25.7	15.0
160	MAPACHE (TCL)			4352.7	0.0	11.5	0.1	0.0	11.0	-----
168	FRIGATE"S" CM-17904-D-3M-1Y-0Y			4350.1	8.3	10.8	29.2	23.5	22.0	80.0
12	ERP"S"-RUSD CD-10437-31M-1Y-2M-1Y-0M			4278.9	11.5	14.7	22.1	14.3	11.0	30.0
68	NJDRO 231			4236.4	1.7	14.2	27.2	6.3	29.3	70.0
59	FRIG"S" CM-17904-B-3M-1Y			4235.2	0.0	20.3	29.2	31.0	33.3	50.0
169	CR"S"-USA 02299 CM-18882-2Y-0Y			4233.0	2.5	14.6	36.7	55.0	40.7	20.0
79	GAD"S"-SNIPE"S" X GEDIZ"S" CD-19646-A-7Y-1M-0Y			4210.3	4.0	21.5	35.0	7.5	29.7	60.0
66	ALGERIAN B6			4198.6	0.0	10.5	7.5	24.3	11.0	80.0
23	WIN"S" CM-18577-11Y-6Y-2Y-0Y			4193.6	0.0	22.6	43.5	21.5	11.0	70.0
110	DACK"S"-KIWI"S" CD-12499-6Y-1M-1Y-2M-0Y			4179.5	7.0	7.5	42.5	20.0	25.7	5.0
143	GTA"S"-PG"S"/BD 1814 X BD 1708-BD 15 3 CD-18532-10Y-5M-2Y-0M			4172.1	20.7	10.2	39.5	5.8	18.3	70.0

Table 4. Top performance entries: Days to flower

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	FLOW DAYS	YIELD KG/HA	STRP RT. L	LEAF RUST	STEM RUST	POWD %	SEPT TRIT
				NOBS: (17)	(17)	(4)	(9)	(6)	(4)	(3)
160	MAPACHE (TCL)			91.6	4352.7	0.0	11.5	0.1	0.0	11.0
140	NACDZARI 76			92.4	4553.1	29.7	27.1	10.5	13.8	40.7
60	MEXI 75			92.5	3868.1	14.5	30.7	15.9	6.3	29.7
149	DURO 73-IBIS"S" X OYCA"S" CD-17916-11Y-3M-1Y-0M			92.7	3972.5	5.0	17.0	41.7	21.3	26.0
150	(S15 X T. DIC-QLL"S"/PLC"S")SNIPE"S" CD-18215-7Y-3M-1Y-0M			93.1	3614.3	1.6	10.3	34.0	26.3	26.0
131	MAGH 72			93.4	3368.9	8.3	24.5	15.0	9.5	29.7
23	WIN"S" CM-18577-11Y-6Y-2Y-0Y			93.4	4193.6	0.0	22.6	43.5	21.5	11.0
24	WIN"S" CM-18577-11Y-9Y-0Y			93.5	4058.7	0.0	20.2	41.8	25.5	16.5
72	DURO 73-IBIS"S" X OYCA"S" CD-17916-11Y-18M-0Y			93.8	3872.7	7.2	18.4	34.8	20.8	33.3
7	SCD"S"-MEXI"S" CD-7917-5M-1Y-1M-0Y			93.9	3767.0	3.8	10.6	22.2	3.3	29.7
162	WIN"S"-AA"S" CD-12454-3Y-11M-1Y-2M-1Y-0M			94.0	4085.0	12.8	19.3	25.8	24.0	16.5
13	MEMO"S" CD-10521-I-4M-1Y-3M-1Y-0M			94.1	3985.9	0.0	15.2	38.1	29.5	11.0
40	CIT 71			94.3	3801.3	4.8	8.4	24.7	16.3	14.7
32	FRIG"S" CM-17904-8-3M-1Y-1Y			94.4	4634.0	0.0	13.8	34.3	11.5	37.0
39	ZB. MOLI-M'RARI X S15-CR"S"/MEXI"S" CD-1283-A-4Y-1Y-1M-0Y			94.7	2944.9	5.0	12.1	15.0	12.5	11.0
38	S15-CR"S" D-33312-8M-4M-2Y-0M-1B			94.8	3737.3	2.1	10.4	11.8	23.8	22.0
26	CHIS"S" CD-1314-A-1Y-2Y			94.8	3823.6	20.7	9.9	22.4	33.0	37.0
108	FUL"S"-USA 0887 CD-12345-7Y-5M-5Y-3M-0Y			94.8	4001.4	18.5	21.8	48.3	28.5	22.0
132	R143			94.8	3718.7	0.0	9.8	43.3	25.0	33.3
168	FRIGATE"S" CM-17904-D-3M-1Y-0Y			94.8	4350.1	8.3	10.8	29.2	23.5	22.0
66	ALGERIAN 86			94.9	4198.6	0.0	10.5	7.5	24.3	11.0
19	STIL"S" CD-16677-A-7M-5Y-0M			95.0	3691.6	1.0	13.5	17.3	11.5	11.0
102	(PLC"S" X SALT I AUTHA-HITI/FO"S")MEX I 75 CD-16895-A-3M-2Y-3M-0Y			95.0	4003.8	12.0	13.0	11.5	4.5	33.3

Table 5. Top performance entries: Days to maturity

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	MAT	YIELD	STRP	LEAF	STEM	POWD	SEPT
				DAYS	KG/HA	RT. L	RUST	RUST	%	TRIT
				NOBS: (10)	(17)	(4)	(9)	(6)	(4)	(3)
162	WIN"S"-AA"S" CD-12454-3Y-11M-1Y-2M-1Y-0M			130.4	4085.0	12.8	19.3	25.8	24.0	16.5
160	MAPACHE (TCL)			130.6	4352.7	0.0	11.5	0.1	0.0	11.0
161	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-2Y-0M			130.9	3294.1	11.3	4.3	0.9	3.3	7.3
159	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-1Y-0M			131.1	3354.1	9.0	5.4	2.8	6.3	26.0
168	FRIQATE"S" CM-17904-D-3M-1Y-0Y			132.0	4350.1	8.3	10.8	29.2	23.5	22.0
166	CH 67 X JD"S"-CR"S" CM-12857-10Y-2M-1Y-0Y			133.1	3655.6	6.0	13.9	30.6	40.5	18.3
169	CR"S"-USA 02299 CM-18882-2Y-0Y			133.2	4233.0	2.5	14.6	36.7	55.0	40.7
158	OYCA"S"-MAGH"S" X RUFF"S"-FQ"S" CD-16913-B-2M-2Y-3M-4Y-0M			133.3	4384.3	9.0	13.8	5.4	6.3	22.0
131	MAGH 72			133.7	3368.9	8.3	24.5	15.0	9.5	29.7
32	FRIQ"S" CM-17904-B-3M-1Y-1Y			134.1	4634.0	0.0	13.8	34.3	11.5	37.0
153	QUIL"S"-MEXI 75 X USDA 0575 CD-19376-F-3Y-3M-1Y-0M			134.3	3517.0	5.5	17.5	6.6	15.0	33.3
167	(QR"S"/CP-ST 464 X CR"S")PLC"S" CM-17800-E-6M-2Y-0Y			134.4	3538.5	8.3	7.9	29.2	34.0	29.7
149	DURD 73-IBIS"S" X OYCA"S" CD-17916-11Y-3M-1Y-0M			134.6	3972.5	5.0	17.0	41.7	21.3	26.0
164	USA 0640-FQ"S" X FQ"S"(2)-RUFF"S" CD-14119-E-7Y-1M-2Y-1Y-0M			134.7	3548.3	5.2	5.3	3.2	29.3	22.0
157	OYCA"S"-MAGH"S" X RUFF"S"-FQ"S" CD-16913-B-2M-2Y-3M-3Y-0M			134.7	4133.1	10.0	8.6	9.2	3.5	14.7
140	NACQZARI 76			134.7	4553.1	29.7	27.1	10.5	13.8	40.7
128	BD"S"-QS"S" X COOT"S"/RUFF"S"-FQ"S" CD-10454-5M-3Y-6M-3Y-3M-0Y			134.8	3345.3	7.5	12.9	13.4	8.8	18.3
40	CIT 71			134.9	3801.3	4.8	8.4	24.7	16.3	14.7
60	MEXI 75			134.9	3868.1	14.5	30.7	15.9	6.3	29.7
156	(PLC"S" X SALT I AUTMA-HITI/FQ"S")MEX I 75 CD-16895-H-4M-1Y-2M-1Y-0M			135.0	3564.9	0.0	15.4	24.3	6.0	22.0
150	(S15 X T. DIC-QLL"S"/PLC"S")SNIPE"S" CD-18215-7Y-3M-1Y-0M			135.0	3614.3	1.6	10.3	34.0	26.3	26.0
155	STIL"S" CD-16677-A-2M-3Y-1M-3Y-0M			135.0	4088.1	15.8	15.4	8.2	3.3	25.7
129	BD"S"-QS"S" X COOT"S"/RUFF"S"-FQ"S" CD-10454-5M-3Y-2M-2Y-2M-0Y			135.0	3524.4	12.8	7.3	11.1	11.3	18.3

Table 6. Top performance entries: Stripe rust (leaf)

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	STRP RT. L	YIELD KG/HA	LEAF RUST	STEM RUST	POWD %	SEPT TRIT	YELL BERR
			NOBS:	(4)	(17)	(9)	(6)	(4)	(3)	(1)
32	FRIG"S" CM-17904-B-3M-1Y-1Y			0.0	4634.0	13.8	34.3	11.5	37.0	70.0
23	WIN"S" CM-18577-11Y-6Y-2Y-0Y			0.0	4193.6	22.6	43.5	21.5	11.0	70.0
24	WIN"S" CM-18577-11Y-9Y-0Y			0.0	4058.7	20.2	41.8	25.5	16.5	80.0
25	OR"S"-S. CP X ST 464/CR"S" CM-19742-D-5Y-1M-2Y-2Y			0.0	3580.4	12.0	32.0	26.3	16.5	90.0
15	JO"S"-CR"S" X USA 01679/JD"S"-OR"S" CD-10579-F-6M-1Y-4M-0Y			0.0	3668.1	12.5	20.7	47.5	18.3	30.0
132	R143			0.0	3718.7	9.8	43.3	25.0	33.3	90.0
49	KRANICH"S" CM-199-29M-1Y-1M-0Y			0.0	3205.8	14.3	25.6	35.8	14.7	90.0
133	SCA"S" CM-18537-1Y-0Y-1B			0.0	3691.2	5.7	34.2	10.8	22.0	70.0
9	KOL"S" CD-10011-14M-2Y-1M-2Y-0M			0.0	3997.3	13.5	55.0	26.0	26.0	70.0
62	WIN"S" CM-18577-11Y-7Y-1Y-1M-0Y-OKE			0.0	4569.1	16.5	43.5	21.0	33.3	50.0
42	MEXI"S"-OTA"S" CD-1896-1Y-3Y-OKE			0.0	3773.1	13.8	21.3	6.3	33.3	90.0
17	MISRI-MEXI"S" X SNIPE"S" CD-10662-F-1M-1Y-2M-3Y-0M			0.0	3514.6	7.3	22.9	37.0	16.5	20.0
13	MEMO"S" CD-10521-I-4M-1Y-3M-1Y-0M			0.0	3985.9	15.2	38.1	29.5	11.0	60.0
66	ALGERIAN B6			0.0	4198.6	10.5	7.5	24.3	11.0	80.0
156	(PLC"S" X SALT I AUTMA-HITI/FG"S")MEX I 75 CD-16895-H-4M-1Y-2M-1Y-0M			0.0	3564.9	15.4	24.3	6.0	22.0	60.0
16	MISRI-MEXI"S" X SNIPE"S" CD-10662-F-1M-1Y-2M-1Y-0M			0.0	3364.3	10.9	20.5	41.3	37.0	15.0
160	MAPACHE (TCL)			0.0	4352.7	11.5	0.1	0.0	11.0	-----
59	FRIG"S" CM-17904-B-3M-1Y			0.0	4235.2	20.3	29.2	31.0	33.3	50.0
125	ATO"S" X AA"S"-PLC"S"/D67.2 CD-10023-3M-4Y-1M-1Y-1M-0Y			0.0	3694.8	8.8	37.1	8.8	37.0	90.0
57	KIF"S" CM-14662-D-14Y-3M-1Y-1Y-0Y			0.0	3219.4	18.4	62.0	10.8	22.3	90.0

Table 7. Top performance entries: Leaf rust

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	LEAF	YIELD	STRP	STEM	POWD	SEPT	YELL	
				RUST	KG/HA	RT. L	RUST	%	TRIT	BERR	
				NOBS:	(9)	(17)	(4)	(6)	(4)	(3)	(1)
161	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-2Y-OM			4.3	3294.1	11.3	0.9	3.3	7.3	5.0	
121	PG"S"-CIT"S" CD-8142-3M-3Y-1M-1Y-1M-0Y			4.3	3103.1	0.7	19.2	1.3	11.0	90.0	
123	QDD VZ 578-GTA"S" CD-8544-26M-4Y-1M-1Y-2M-0Y			4.3	3159.1	0.2	10.4	1.3	18.3	90.0	
164	USA 0640-FQ"S" X FQ"S"(2)-RUFF"S" CD-14119-E-7Y-1M-2Y-1Y-0M			5.3	3548.3	5.2	3.2	29.3	22.0	2.0	
151	(CR"S"-OS"S" X P66/270/FQ"S")RUFF"S" FQ"S" CD-19321-C-1Y-6M-1Y-0M			5.3	3441.8	2.8	5.0	16.3	11.0	80.0	
120	PAVON 76 (BW)			5.4	4099.4	36.3	4.5	18.3	22.0	10.0	
159	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-1Y-0M			5.4	3354.1	9.0	2.8	6.3	26.0	80.0	
133	SCA"S" CM-18537-1Y-0Y-1B			5.7	3691.2	0.0	34.2	10.8	22.0	70.0	
93	[LDS MUT-GTA"S"(INRAT 69-OR"S" X BO" "/RABI"S")JFUL"S" CD-16548-D-12M-7Y-4M-0Y			6.1	3275.6	9.0	30.9	12.5	25.7	70.0	
95	OVI 65-CP X FQ"S"/RUFF"S"-FQ"S" CD-16696-E-1M-2Y-1M-0Y			6.2	3245.9	3.0	5.5	6.3	22.0	5.0	
135	AA"S"-CR"S" X CIT"S" CM-10187-7M-0Y-1B			6.8	3897.6	3.5	32.5	25.0	26.0	90.0	
144	GTA"S"-PG"S" X USDA 580 CD-18533-3Y-2M-2Y-0M			6.9	3524.1	5.5	2.6	10.0	29.7	5.0	
165	HERON"S" CM-17747-C-7M-2Y-1B			7.0	3276.5	1.0	21.3	23.0	22.0	5.0	
100	BIT"S" CM-9799-126M-1M-4Y-0Y-0M			7.0	3815.8	10.0	11.8	8.8	25.7	30.0	
99	SWAN"S" CD-16707-0-7M-4Y-4M-0Y			7.1	3659.2	1.3	6.8	5.8	18.3	80.0	
129	BO"S"-OS"S" X COOT"S"/RUFF"S"-FQ"S" CD-10454-5M-3Y-2M-2Y-2M-0Y			7.3	3524.4	12.8	11.1	11.3	18.3	20.0	
127	ERP"S"-RUSO CD-10437-13M-3Y-1M-2Y-2M-0Y			7.3	4064.0	4.0	42.1	21.3	29.7	15.0	
17	MISRI-MEXI"S" X SNIPE"S" CD-10662-F-1M-1Y-2M-3Y-0M			7.3	3514.6	0.0	22.9	37.0	16.5	20.0	

Table 8. Top performance entries: Stem rust

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	STEM RUST	YIELD KG/HA	STRP RT. L	LEAF RUST	POWD %	SEPT TRIT	YELL BERR
				NOBS: (6)	(17)	(4)	(9)	(4)	(3)	(1)
160	MAPACHE (TCL)			0.1	4352.7	0.0	11.5	0.0	11.0	-----
161	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-2Y-OM			0.9	3294.1	11.3	4.3	3.3	7.3	5.0
144	GTA"S"-PG"S" X USDA 580 CD-18533-3Y-2M-2Y-OM			2.6	3524.1	5.5	6.9	10.0	29.7	5.0
159	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-1Y-OM			2.8	3354.1	9.0	5.4	6.3	26.0	80.0
164	USA 0640-FG"S" X FQ"S"(2)-RUFF"S" CD-14119-E-7Y-1M-2Y-1Y-OM			3.2	3548.3	5.2	5.3	29.3	22.0	2.0
86	BOY"S"-SNIPE"S" X QEDIZ"B"-CORM"S" CD-19832-A-3Y-1M-0Y			3.2	3636.8	32.7	8.9	12.5	22.0	60.0
120	PAVON 76 (BW)			4.5	4099.4	36.3	5.4	18.3	22.0	10.0
119	TUBEND"S" CD-7849-3M-3Y-4M-1Y-1M-0Y			4.9	3376.8	8.0	7.5	14.5	11.0	15.0
151	(CR"S"-QS"S" X P66/270/FG"S")RUFF"S" FG"S" CD-19321-C-1Y-6M-1Y-OM			5.0	3441.8	2.8	5.3	16.3	11.0	80.0
158	OYCA"S"-MAGH"S" X RUFF"S"-FG"S" CD-16913-B-2M-2Y-3M-4Y-OM			5.4	4384.3	9.0	13.8	6.3	22.0	40.0
95	OVI 65-CP X FQ"S"/RUFF"S"-FG"S" CD-16696-E-1M-2Y-1M-0Y			5.5	3245.9	3.0	6.2	6.3	22.0	5.0
97	SWAN"S" CD-16707-A-1M-1Y-2M-0Y			6.0	3702.3	8.3	12.4	5.8	22.0	40.0
154	WIN"S"-USA 02237 X GAD"S" CD-16559-C-7M-2Y-3M-1Y-OM			6.2	3969.9	6.0	13.6	6.3	29.7	80.0
82	SCA"S"-KIF"S" X A0 ELONG-TAC.0Y CD-19675-C-6Y-1M-0Y			6.5	3645.4	44.3	16.8	3.3	29.7	60.0
153	QUIL"S"-MEXI 75 X USDA 0575 CD-19576-F-3Y-3M-1Y-OM			6.6	3517.0	5.5	17.5	15.0	33.3	5.0
99	SWAN"S" CD-16707-G-7M-4Y-4M-0Y			6.8	3659.2	1.3	7.1	5.8	18.3	80.0
75	QUIL"S"-MEXI 75 X USA 0575 CD-19576-F-3Y-7M-0Y			6.8	3711.9	17.5	21.2	7.0	22.0	20.0
118	TUBEND"S" CD-7849-3M-1Y-5M-2Y-2M-0Y			7.4	3371.3	14.2	12.8	18.8	11.0	5.0
66	ALGERIAN 86			7.5	4198.6	0.0	10.5	24.3	11.0	80.0
98	SWAN"S" CD-16707-E-1M-2Y-5M-0Y			7.7	3418.7	0.1	19.5	8.8	26.0	50.0

Table 9. Top performance entries: Height

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	PLNT HT	YIELD KG/HA	STRP RT. L	LEAF RUST	STEM RUST	POWD %	SEPT TRIT
			NOBS.	(17)	(17)	(4)	(9)	(6)	(4)	(3)
150	(S15 X T. DIC-QLL"S"/PLC"S")SNIPE"S" CD-18215-7Y-3M-1Y-0M			71.1	3614.3	1.6	10.3	34.0	26.3	26.0
130	DURUM 73-IBIS"S" X OYCA"S" CD-17916-5Y-3M-0Y			71.2	3335.4	22.5	7.9	34.6	6.3	22.0
13	MEMO"S" CD-10521-I-4M-1Y-3M-1Y-0M			72.0	3985.9	0.0	15.2	38.1	29.5	11.0
132	R143			72.5	3718.7	0.0	9.8	43.3	25.0	33.3
43	MEXI"S"-MAQH"S" CD-3879-29M-1M-0Y-1B			73.8	3157.1	3.8	26.3	30.7	0.0	18.3
134	QTA"S"-B0179 HRL-0Y-1M-0Y			73.9	3256.9	0.1	19.4	42.0	8.8	29.7
149	DURO 73-IBIS"S" X OYCA"S" CD-17916-11Y-3M-1Y-0M			74.0	3972.5	5.0	17.0	41.7	21.3	26.0
22	FG"S"-DOM"S" CM-18548-1Y-1Y-1Y-4M-0Y			74.4	3702.7	5.3	24.0	56.8	37.0	16.5
128	BO"S"-QS"S" X COOT"S"/RUFF"S"-FG"S" CD-10454-5M-3Y-6M-3Y-3M-0Y			74.7	3345.3	7.5	12.9	13.4	8.8	18.3
16	MISRI-MEXI"S" X SNIPE"S" CD-10662-F-1M-1Y-2M-1Y-0M			75.1	3364.3	0.0	10.9	20.5	41.3	37.0
148	DURO 73-IBIS"S" X OYCA"S" CD-17916-5Y-4M-2Y-0M			75.3	3746.6	8.0	16.7	30.0	10.8	33.3
129	BO"S"-QS"S" X COOT"S"/RUFF"S"-FG"S" CD-10454-5M-3Y-2M-2Y-2M-0Y			75.5	3524.4	12.8	7.3	11.1	11.3	18.3
147	OYCA"S" X QGD VZ 394-CIT"S" CD-17717-5Y-3M-1Y-0M			75.7	3232.7	9.5	18.0	41.7	24.5	14.7
61	RUFF"S"-QTA"S" CM-18555-6Y-1Y-0Y			76.0	3335.2	0.3	14.9	32.5	17.0	33.3
131	MAQH 72			76.2	3368.9	8.3	24.5	15.0	9.5	29.7
17	MISRI-MEXI"S" X SNIPE"S" CD-10662-F-1M-1Y-2M-3Y-0M			76.3	3514.6	0.0	7.3	22.9	37.0	16.5
27	MEXI"S"-MAQH"S" CD-3879-29Y-2M-3Y-0M			76.4	3001.4	5.0	24.0	46.0	1.7	22.0
55	OYCA"S" CM-14562-J-500Y-1M-3Y-1Y-0Y			76.6	2830.2	2.0	17.2	53.5	25.3	29.7

Table 11. Top performance entries: *Septoria tritici*

VIV NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	SEPT TRIT	YIELD KG/HA	STRP RT. L	LEAF RUST	STEM RUST	POWD %	YELL BERR	
				NOBS:	(3)	(17)	(4)	(9)	(6)	(4)	(1)
122	ENTE"S"-MEXI"S" CD-8153-12M-3Y-1M-2Y-1M-0Y			0.0	3124.7	11.5	8.2	10.0	1.3	80.0	
64	DURO 3-IBIS"S" X 1150-KR 59 F4 LAMB-2Y-1M			3.7	3632.3	6.5	21.9	46.0	24.8	40.0	
161	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-2Y-0M			7.3	3294.1	11.3	4.3	0.9	3.3	5.0	
66	ALGERIAN 86			11.0	4198.6	0.0	10.5	7.5	24.3	80.0	
119	TUBEND"S" CD-7849-3M-3Y-4M-1Y-1M-0Y			11.0	3376.8	8.0	7.5	4.9	14.5	15.0	
121	PO"S"-CIT"S" CD-8142-3M-3Y-1M-1Y-1M-0Y			11.0	3103.1	0.7	4.3	19.2	1.3	90.0	
23	WIN"S" CM-18577-11Y-6Y-2Y-0Y			11.0	4193.6	0.0	22.6	43.5	21.5	70.0	
29	ERP"S"-RUBO CD-10437-7M-1Y-0M			11.0	3452.2	5.5	25.1	34.6	9.5	80.0	
30	ENTE"S"-MEXI"S" CD-8153-12M-3Y-4M-1Y-0M			11.0	3488.0	1.8	17.0	15.5	5.5	90.0	
124	SCAR"S"-ODO VZ 579 CD-9885-5M-2Y-1M-3Y-1M-0Y			11.0	3261.7	0.1	10.3	10.2	1.3	80.0	
160	MAPACHE (TCL)			11.0	4352.7	0.0	11.5	0.1	0.0	-----	
12	ERP"S"-RUBO CD-10437-31M-1Y-2M-1Y-0M			11.0	4278.9	11.5	14.7	22.1	14.3	30.0	
13	MEMO"S" CD-10521-1-4M-1Y-3M-1Y-0M			11.0	3985.9	0.0	15.2	38.1	29.5	60.0	
151	(CR"S"-OS"S" X P66/270/FO"S")RUFF"S" FO"S" CD-19321-C-1Y-6M-1Y-0M			11.0	3441.8	2.8	5.3	5.0	16.3	80.0	
76	QUIL"S"-MEXI 75 X USA 0575 CD-19576-0-1Y-1M-0Y			11.0	4164.1	24.0	11.6	13.5	7.0	15.0	
18	STIL"S" CD-16677-A-3M-2Y-0M			11.0	3838.0	0.7	8.0	21.1	16.8	30.0	
19	STIL"S" CD-16677-A-7M-5Y-0M			11.0	3691.6	1.0	13.5	17.3	11.5	90.0	
118	TUBEND"S" CD-7849-3M-1Y-5M-2Y-2M-0Y			11.0	3371.3	14.2	12.8	7.4	18.8	5.0	
65	LOON"B" CM-14528			11.0	3997.5	5.3	14.3	29.2	26.0	30.0	
107	CR"S"-USA 02299 X CR"S"-OS"S" CD-11823-4Y-5M-1Y-1M-0Y			11.0	3294.6	4.0	22.8	55.1	37.3	50.0	
39	ZB. MOLI-M'RARI X S15-CR"S"/MEXI"S" CD-1283-A-4Y-1Y-1M-0Y			11.0	2944.9	5.0	12.1	15.0	12.5	90.0	

Table 12. Top performance entries: Helminthosporium

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	MELM	YIELD KG/HA	STRP RT L	LEAF RUST	STEM RUST	POWD %	SEPT TRIT	NOBS						
											(1)	(15)	(3)	(9)	(5)	(4)	(3)
169	CR"S"-USA 02299 CH-18882-2Y-0Y				11 0 4271.5	3 3	14 6	26 0	55 0	40 7							
44	HOA"S" CD-3935-1Y-1M-4Y-0M				11 0 3399.4	5 3	18 5	15 6	20 0	18 3							
45	OTA"B"-TC60 X MEXI"S" CD-4853-E-1Y-1M-0Y				11 0 3360.5	10 1	13 2	37 2	9 5	22 3							
4	BIT"B" CH-9799-126M-1M-5Y-0Y				11 0 3456.4	10 3	9 3	12 9	0 0	33 3							
5	ROK"B" CD-1895-12Y-0Y-2E				11 0 3931.8	11 0	8 4	15 6	5 5	29 7							
6	BOY"B" CD-4404-B-9Y-3M-0Y				11 0 4061.0	18 3	20 7	12 7	23 5	18 7							
49	KRANICH"B" CH-199-29M-1Y-1M-0Y				11 0 3190.8	0 0	14 3	12 7	35 8	14 7							
50	BIT"B" CH-9799-126M-1M-3Y-0Y				11 0 3890.3	11 8	12 7	11 1	15 0	22 0							
93	ILDS MUT-GTA"B" (INRAT 69-OR"B" X BD" "/RABI"B") JFUL"S" CD-16548-D-12M-7Y-4M-0Y				11 0 3309.7	9 3	6 1	25 1	12 5	25 7							
10	KOL"B" CD-10011-23M-3Y-4M-0Y				11 0 4060.2	5 0	19 3	66 0	31 5	29 7							
11	ERP"B"-RUBO CD-10437-13M-3Y-0M				11 0 3501.2	6 7	18 9	54 0	31 5	16 5							
33	TEZONTLE"B" CD-10549-U-7M-2Y-1M-0Y				11 0 3936.3	6 3	14 2	32 2	0 0	18 3							
13	MEMO"B" CD-10521-I-4M-1Y-3M-1Y-0M				11 0 3723.2	0 0	15 2	29 7	29 5	11 0							
14	EIDER"B" CD-10535-D-1M-1Y-1M-2Y-0M				11 0 3966.5	9 7	13 6	41 5	22 3	33 3							
15	JO"B"-CR"B" X USA 01679/JO"B"-OR"B" CD-10579-F-6M-1Y-4M-0Y				11 0 3596.2	0 0	12 5	25 6	47 5	18 3							
58	HERON"B" CH-17747-C-1M-5Y				11 0 3564.7	1 3	14 2	19 2	15 8	25 7							
27	MEXI"B"-MAGH"S" CD-3879-29Y-2M-3Y-0M				11 0 2893.8	6 7	24 0	37 2	1 7	22 0							
18	STIL"B" CD-16677-A-3M-2Y-0M				11 0 3601.2	1 0	8 0	23 4	16 8	11 0							
19	STIL"B" CD-16677-A-7M-5Y-0M				11 0 3729.5	2 0	13 5	20 0	11 5	11 0							
20	JORIC 69				11 0 2794.1	9 3	16 0	17 5	15 7	25 7							
21	SWAN"B" CD-16707-H-3M-3Y-0M				11 0 4289.2	3 7	26 9	42 0	36 0	29 3							
43	MEXI"B"-MAGH"S" CD-3879-29M-1M-0Y-1B				11 0 3107.7	5 0	26 3	35 8	0 0	18 3							
23	WIN"B" CH-18577-11Y-6Y-2Y-0Y				11 0 3996.0	0 0	22 6	34 2	21 5	11 0							
76	QUIL"B"-MEXI 75 X USA 0575 CD-19576-Q-1Y-1M-0Y				11 0 4217.8	26 7	11 6	16 7	7 0	11 0							
25	OR"B"-S. CP X ST 464/CR"S" CH-19742-D-5Y-1M-2Y-2Y				11 0 3527.6	0 0	12 0	32 5	26 3	16 5							
26	CHIS"B" CD-1314-A-1Y-2Y				11 0 3558.7	27 3	9 9	27 5	33 0	37 0							
47	BD 2014-RABI"S" CD-9374-1B				11 0 3770.2	6 0	12 2	17 7	17 5	18 7							

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	HELM	YIELD KG/HA	STRP RT. L	LEAF RUST	STEM RUST	POWD %	SEPT TRIT	
				NOBS:	(1)	(15)	(3)	(9)	(5)	(4)	(3)
28	GOOSE"S" CM-10143-6M-3Y-1M-2Y-0Y			11.0	4146.1	3.7	21.8	47.5	11.0	22.0	
29	ERP"S"-RUSO CD-10437-7M-1Y-0M			11.0	3348.5	7.0	25.1	27.5	9.5	11.0	
30	ENTE"S"-MEXI"S" CD-8153-12M-3Y-4M-1Y-0M			11.0	3428.7	2.3	17.0	16.7	5.5	11.0	
31	EIDER"S" CD-10535-D-1M-1Y-4M-1Y-0M			11.0	4005.1	6.0	17.3	44.0	8.3	22.0	
32	FRIG"S" CM-17904-B-3M-1Y-1Y			11.0	4652.0	0.0	13.8	23.2	11.5	37.0	
75	QUIL"S"-MEXI 75 X USA 0575 CD-19576-F-3Y-7M-0Y			11.0	3600.9	20.7	21.2	4.6	7.0	22.0	
128	BO"S"-OB"S" X COOT"S"/RUFF"S"-FO"S" CD-10484-3M-3Y-6M-3Y-3M-0Y			11.0	3387.2	7.3	12.9	15.8	8.8	18.3	
35	FO"S"-RUFF"S" D-9210-1B			11.0	3290.2	5.0	19.5	43.8	7.0	29.7	
120	PAVON 76 (BW)			11.0	4081.5	48.3	5.4	2.6	18.3	22.0	
57	KIF"S" CM-14662-D-14Y-3M-1Y-1Y-0Y			11.0	3174.7	0.0	18.4	55.0	10.8	22.3	
53	GOOSE"S" CM-10143-19M-2Y-1M-1Y-0Y-1PTZ			11.0	3855.5	3.1	13.6	27.5	7.5	25.7	
39	ZB. MOLI-M'RARI X S15-CR"S"/MEXI"S" CD-1283-A-4Y-1Y-1M-0Y			11.0	2898.1	6.0	12.1	18.8	12.5	11.0	
40	CIT 71			11.0	3849.0	5.3	8.4	26.4	16.3	14.7	
41	MAL"S" CD-1894-3Y-1Y-0M-1B			11.0	3607.2	6.9	12.1	15.5	15.0	29.7	
42	MEXI"S"-GTA"S" CD-1896-1Y-3Y-0KE			11.0	3665.6	0.0	13.8	20.6	6.3	33.3	
63	SCD"S" D-27625			11.0	3246.2	2.5	19.6	60.2	36.8	22.0	
74	QUIL"S"-MEXI 75 X USA 0575 CD-19576-F-3M-7M-0Y			11.0	3921.3	8.0	17.4	11.4	4.5	25.7	
55	OYCA"S" CM-14562-J-500Y-1M-3Y-1Y-0Y			11.0	2832.5	2.7	17.2	46.2	25.3	29.7	
46	GTA"S"-TC60 X MEXI"S" CD-4853-E-1Y-1M-0Y			11.0	3761.5	9.0	19.2	46.2	8.8	26.0	
52	BIT"S" CM-9799-126M-1M-4Y-0Y			11.0	3779.9	4.0	10.0	11.8	6.3	25.7	
73	RUFF"S"-MEXI"S" X SNIPE"S" CD-18150-5Y-1M-0Y			11.0	3997.7	8.0	10.6	8.3	13.3	18.3	
70	SNIPE"S" CM-13414-1Y-3M-0Y			11.0	3909.8	11.3	13.0	10.3	25.8	26.0	
62	WIN"S" CM-18577-11Y-7Y-1Y-1M-0Y-0KE			11.0	4505.5	0.0	16.5	34.2	21.0	33.3	
61	RUFF"S"-GTA"S" CM-18555-6Y-1Y-0Y			11.0	3274.9	0.5	14.9	23.0	17.0	33.3	
84	DOM"S" X CR"S"(2)-OB"S"/SCD"S" CD-19743-C-6Y-2M-0Y			11.0	3931.5	15.0	16.7	38.2	11.3	26.0	
82	SCA"S"-KIF"S" X AQ ELONG-TAC. 0Y CD-19675-C-6Y-1M-0Y			11.0	3705.3	62.5	16.8	8.7	3.3	29.7	

Table 13. Top performance entries: Yellow berry

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YELL BERR	YIELD KG/HA	STRP RT. L	LEAF RUST	STEM RUST	POWD %	SEPT TRIT
			NOBS:	(1)	(17)	(4)	(9)	(6)	(4)	(31)
109	DACK"S"-RABI"S" CD-12498-6Y-4M-2Y-1M-0Y			1.0	4019.1	4.3	20.9	42.1	34.8	22.0
164	USA 0640-FG"S" X FG"S"(2)-RUFF"S" CD-14119-E-7Y-1M-2Y-1Y-0M			2.0	3548.3	5.2	5.3	3.2	29.3	22.0
11	ERP"S"-RUSO CD-10437-13M-3Y-0M			5.0	3657.4	5.0	18.9	60.0	31.5	16.5
118	TUBENO"S" CD-7849-3M-1Y-5M-2Y-2M-0Y			5.0	3371.3	14.2	12.8	7.4	18.8	11.0
110	DACK"S"-KIWI"S" CD-12499-6Y-1M-1Y-2M-0Y			5.0	4179.5	7.0	7.5	42.5	20.0	25.7
153	QUIL"S"-MEXI 75 X USDA 0575 CD-19576-F-3Y-3M-1Y-0M			5.0	3517.0	5.5	17.5	6.6	15.0	33.3
117	TUBENO"S" CD-7849-3M-1Y-5M-2Y-1M-0Y			5.0	3453.9	13.7	9.3	9.3	13.8	18.3
144	GTA"S"-PG"S" X USDA 580 CD-18533-3Y-2M-2Y-0M			5.0	3524.1	5.5	6.9	2.6	10.0	29.7
165	HERON"S" CM-17747-C-7M-2Y-1B			5.0	3276.5	1.0	7.0	21.3	23.0	22.0
67	ALGERIAN 88			5.0	3281.1	16.0	15.8	48.0	22.0	18.3
95	OVI 65-CP X FG"S"/RUFF"S"-FG"S" CD-16696-E-1M-2Y-1M-0Y			5.0	3245.9	3.0	6.2	5.5	6.3	22.0
137	FUL"S"-FG"S"/DYCA"S" X RUFF"S"-FG"S" CD-17305-A-5M-1Y-2M-0Y			5.0	3100.2	18.5	11.5	42.0	7.5	33.3
161	LDS MUT-TEAL"S" CD-12427-4Y-2M-2Y-2M-2Y-0M			5.0	3294.1	11.3	4.3	0.9	3.3	7.3
88	TEAL"S"-WIN"S" X QAD"S" CD-16467-A-5M-1Y-1M-0Y			10.0	3505.7	13.2	14.6	19.2	12.0	14.7
120	PAVON 76 (BW)			10.0	4099.4	36.3	5.4	4.5	18.3	22.0
128	BO"S"-QS"S" X COOT"S"/RUFF"S"-FG"S" CD-10454-5M-3Y-6M-3Y-3M-0Y			10.0	3345.3	7.5	12.9	13.4	8.8	18.3
74	QUIL"S"-MEXI 75 X USA 0575 CD-19576-F-3M-7M-0Y			10.0	3897.6	6.0	17.4	14.0	4.5	25.7

