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53259

Results of the Ninth International Barley Observation Nursery (IBON) 1981-82

CIMMYT

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 dûs aux fourmis en pourcentage
APHID DMGE	Aphid damage percentage	Porcentaje de daño de áfidos	Dégâts dûs 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 dûs 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^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 amylase (en secondes)
FERT o/o	Fertility percentage	Porcentaje de fertilidad	Fertilité en pourcentage
FLOW DAYS	Number days to flower	Días a floración	Nombre de jours à 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 nívea (escala 0–9)	Moisissure 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 o/o	Germination percentage	Porcentaje de germinación	Germination en pourcentage
HAIL DMGE	Hail damage percentage	Porcentaje de daño por granizo	Dégâts dûs 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 o/o	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 o/o	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^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 (0–9 scale)	Mildiú polvoriento (escala 0–9)	Oïdium (échelle 0–9)
PROT o/o	Protein percentage	Porcentaje de proteína	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Putréfaction du maïs en pourcentage
SCAB o/o	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)	Indice de sedimentación (cc)	Indice de sédimentation (cc)
SEED TYPE	Seed type (L=large, M=medium, S=small)	Tipo de semilla (L=grande, M=mediano, S=pequeño)	Type de grain (L=large, M=moyen, S=petit)
SEPT NODO	Septoria nodorum (0–9 scale)	Septoria nodorum (escala 0–9)	Septoria nodorum (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 (o/o)	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/hl)	Peso hectolítrico (kg/hl)	Poids specifique (kg/hl)
1000 G.W.	1000 grain weight (grams)	Peso de 1000 granos (gramos)	Poids de 1000 grains (grames)
YELL BERR	Yellow berry percentage	Porcentaje de panza blanca	Mitadinage en pourcentage
YIELD KG/HA	Yield kg/ha	Rendimiento kg/ha	Rendement kg/ha

RESULTS OF THE 9TH INTERNATIONAL BARLEY OBSERVATION NURSERY

(IBON) 1981-82

The 9th International Barley Observation Nursery (IBON) was sent in September 1981 to be grown by cooperators in their spring season of 1982. Ninety-eight nurseries went to cooperators in 65 countries. The 348 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 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.

Twenty of the cooperators receiving the 9th IBON 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. In this year's summary tables, there has been quite a radical departure from the summary methods used in the previous IBONs. Disease data is concentrated upon, but sites have been rejected where the data obtained is not meaningful. For example, where almost all the ratings were zeros these data were not included because most likely there was only a very mild epidemic of the disease. If used, these scores could distort the MOBS. The tables presented include the data from the individual sites as well as the MOBS. This will enable cooperators to make comparisons between these individual sites and there own. This may be of particular use when a cooperator knows that the virulence of a pathogen at his site is the same as that at one of the sites listed. Only the best entries for specific diseases have been printed and this often is a rather low percentage of the total entry numbers in the nursery.

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
8	AFRICA	EGYPT	KAFR EL SHEIKH	4 7 61 66 68
13	AFRICA	KENYA	RIFT VALLEY	69
14	AFRICA	KENYA	RIFT VALLEY	8 50
61	ASIA	PAKISTAN	PUNJAB	4 5
88	EUROPE	SPAIN	MADRID	61 66 68 77
119	OCEANIA	NEW ZEALAND	MANAWATU	66 77
126	NORTH AMERICA	MEXICO	GUANAJUATO	4 7 68
148	NORTH AMERICA	U. S. A.	MONTANA	66
158	SOUTH AMERICA	BOLIVIA	COCHABAMBA	4 5
163	SOUTH AMERICA	BRAZIL	SAO PAULO	4 8 9 66 68 77
169	SOUTH AMERICA	ECUADOR	QUITO, PICHINCHA	4 5 7 69 77
174	AFRICA	ALGERIA	CONSTANTINE	3 9 61
183	AFRICA	ETHIOPIA	SHOA	4 69
211	ASIA	TAIWAN	TAIPEI	1 3 9 10 13 45
265	NORTH AMERICA	MEXICO	CHIHUAHUA	1 4
358	AFRICA	MOROCCO	RABAT	7 10 61 66
363	MIDDLE EAST	SYRIA	ALEPPO	3 4 5 25 61 66 69
368	MIDDLE EAST	CYPRUS	ATHALASSA	3 7 9 50 61 66 68 69

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
433	MIDDLE EAST	QATAR	BARADA	1 3 4 9 50 66
451	EUROPE	SPAIN	VALLADOLID	3 4 61
463	ASIA	PAKISTAN	PUNJAB	4 5 50 70
471	EUROPE	SPAIN	ZARAGOZA	3 7 50 69
477	EUROPE	NORWAY		3 4 9 27 50 61
484	NORTH AMERICA	CANADA	QUEBEC	77
500	ASIA	NEPAL	BHAIRAHWA	4 5 61 68
510	ASIA	INDIA	UTTAR PRADESH	4 7
512	EUROPE	ENGLAND	NORFOLK	3 10 50 61 69

Table 2. Summary of means of all variables

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	SHRP RUST	LEAF RUST	STEM RUST	PLNT HT
			NOBS	(3)	(9)	(15)	(6)	(7)	(2)	(6)
1	APIZACO			3579.3	108.0	120.3	[illegible]	16.4	0.0	76.2
2	ENSENADA			3220.7	97.1	117.7	50.0	22.0	0.0	77.8
3	CENTINELA			3177.7	98.9	117.5	26.4	26.4	0.0	76.3
4	CM67			2825.7	103.8	119.0	26.0	31.3	40.0	72.0
5	MASURKA			4640.0	110.3	123.5	18.5	32.1	60.0	80.7
6	BUSSELL			2914.0	103.4	120.5	9.0	24.6	20.0	70.2
7	CELAYA X INDIAN DWARF-CM67 CMB76A-2-5B-1Y-2B-1Y-1B-0Y			3625.3	95.0	114.0	28.4	25.0	-----	75.0
8	APM-DWARF II 1Y X MANKER/CAL MR X DS-APRO CMB76A-116-5H-1Y-1B-2Y-1B-0Y			3097.7	95.3	114.1	45.0	30.5	60.0	70.7
9	B1 X MARI-COHO CMB76A-266-4H-1Y-2B-1Y-1B-0Y			2747.3	99.3	117.1	11.0	18.9	0.0	78.8
10	INDIAN DWARF-CM67 X MINN480-GVA CMB76A-274-11B-1Y-1B-1Y-1B-0Y			2931.0	103.0	118.2	26.4	32.9	0.0	69.5
11	BAHTIM7-DL71 X MANCHURIA CMB76A-314-4H-1Y-1B-1Y-2B-0Y			3477.0	101.9	120.1	32.1	49.1	5.0	79.8
12	API-CM67 X DL71/11016 2-CHEVRON CMB76A-318-1B-1Y-2B-1Y-1B-0Y			3908.7	97.2	114.7	32.7	31.4	0.0	71.7
13	CI3909 2 X MAS 151-MANKER(APM-IB65/ API-CM67 X DS-APRO) CMB76A-384-6H-1Y-1B-1Y-2B-0Y			3853.3	109.8	118.4	51.3	25.7	20.0	73.5
14	1206N AMMSEL/GAC-NACKTA X MARIS CAND CMB76A-729-1B-2Y-3B-1Y-1B-0Y			3681.7	113.0	123.4	6.0	21.2	-----	77.5
15	API-CM67 X NOPAL "S" CMB76A-200-5P-1Y-1B-1Y-1B-0Y			4667.0	103.3	114.8	37.0	19.4	0.0	60.2
16	ORE"S" X INDIAN DWARF-CM67 CMB76-254-4M-1Y-1B-1Y-1B-0Y			5016.3	104.0	119.1	35.7	27.7	0.0	76.0
17	NOPAL/API-CM67 X MZ8 CMB76-288-3M-1Y-1B-1Y-1B-0Y			2983.3	99.8	114.2	48.8	28.4	0.0	58.8
18	NOPAL"S"/11016 2-CM67 X POR-U SASK1B 0 CMB76-291-5H-1Y-1B-2Y-1B-0Y			3189.7	101.4	115.9	49.6	25.4	0.0	59.8
19	API-CM67 X AGER CMB76-408-3M-5Y-3B-1Y-1B-0Y			2106.3	101.7	116.6	16.1	31.4	0.0	68.3
20	API-CM67 X NUDINKA CMB76-416-1M-1Y-4B-2Y-2B-0Y			4414.7	105.2	117.6	14.7	19.0	0.0	68.3
21	M64 69-M65 211 X APM-RL/API-CM67 CMB76-579-5H-1Y-1B-2Y-2B-0Y			3775.3	111.4	123.0	48.0	16.8	-----	76.4
22	M69 69 X APM-RL SD729-POR CMB76-508-6H-2Y-1B-1Y-1B-0Y			3832.7	103.4	115.1	32.7	13.8	0.0	62.3
23	CLEO-CI12010 X POPBLA CMB76-950-1-2B-1Y-1B-1Y-1B-0Y			3961.7	104.1	118.2	26.8	12.2	5.0	79.3
24	SAH H251 X INDIAN DWARF CM67 CMB76A-957-A-1B-1Y-2B-1Y-1B-0Y			4459.0	102.9	119.8	58.0	23.0	0.0	69.7
25	POR-U SASK176A X N86312 API-CM67 X DL71 CMB76A-994-1-5B-3Y-1B-1Y-2B-0Y			3745.7	107.5	117.5	4.5	30.3	5.0	73.7
26	11012 2-TERN X E112/CELAYA-CI3909 2 CMB76A-999-C-1B-4Y-4B-1Y-1B-0Y			3241.7	102.7	119.8	26.8	30.8	0.0	78.3
27	U SASK HARVEY 43-BAL16(ECO MR-AVT/ PRO-TOL 1 X CEP(2)-TOL 1) CMB76A-1007-D-1B-2Y-1B-1Y-2B-0Y			3082.3	102.9	118.1	27.6	35.3	0.0	76.5

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HFL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
1	25.0	31.8	11.0	80.0	268.0	14.3	2.8	1.0	2.4	3.3	5.0	4.5
2	25.0	37.4	11.0	80.0	308.0	0.0	2.5	1.9	2.8	3.0	5.0	2.8
3	37.5	36.5	11.0	40.0	364.0	0.0	3.7	1.1	2.0	3.2	5.0	4.3
4	41.7	37.3	11.0	50.0	412.0	0.0	3.3	2.9	3.0	3.9	5.0	2.5
5	0.0	32.5	11.0	40.0	648.0	14.3	1.8	1.6	2.2	4.0	7.0	5.3
6	33.3	30.4	11.0	50.0	400.0	0.0	3.7	2.7	2.4	3.4	7.0	4.3
7	12.5	31.8	22.0	90.0	340.0	42.9	3.5	2.1	2.0	3.0	7.0	3.7
8	33.3	30.5	22.0	90.0	400.0	0.0	5.0	2.0	3.6	4.0	6.0	4.0
9	41.7	34.3	11.0	80.0	404.0	14.3	4.3	2.4	2.8	4.2	8.0	3.0
10	12.5	41.4	11.0	60.0	320.0	14.3	3.7	2.0	1.8	2.2	7.0	3.5
11	25.0	44.0	11.0	70.0	536.0	28.6	4.7	2.6	1.6	3.1	8.0	2.3
12	12.5	29.4	11.0	90.0	416.0	28.6	3.7	2.0	1.2	3.7	8.0	4.3
13	37.5	36.8	11.0	40.0	416.0	0.0	2.8	1.8	4.6	4.0	5.0	4.5
14	0.0	34.5	11.0	40.0	612.0	0.0	1.0	2.3	1.8	3.6	5.0	3.3
15	12.5	35.1	22.0	70.0	360.0	0.0	3.2	1.8	3.0	5.8	7.0	2.8
16	25.0	45.5	22.0	70.0	308.0	14.3	4.8	1.7	2.8	4.7	5.0	4.3
17	37.5	26.2	11.0	80.0	572.0	0.0	4.5	2.4	2.8	6.3	4.0	2.5
18	12.5	30.2	11.0	80.0	312.0	28.6	3.1	2.8	3.0	5.3	4.0	2.3
19	25.0	35.5	11.0	70.0	176.0	28.6	3.0	2.6	3.8	4.3	8.0	2.5
20	12.5	31.3	33.0	70.0	540.0	28.6	3.4	2.4	1.8	3.7	8.0	4.3
21	37.5	44.3	22.0	50.0	508.0	0.0	3.8	1.3	2.3	3.2	8.0	6.0
22	37.5	40.4	11.0	50.0	328.0	0.0	2.7	2.3	5.4	5.3	7.0	2.8
23	0.0	55.5	11.0	40.0	452.0	14.3	2.4	1.5	4.8	3.3	7.0	4.3
24	33.3	50.6	11.0	70.0	340.0	0.0	4.4	2.3	5.6	4.6	9.0	2.8
25	0.0	29.1	11.0	80.0	392.0	28.6	3.2	1.5	2.4	3.7	4.0	3.0
26	12.0	40.6	11.0	80.0	372.0	28.6	2.9	2.4	2.0	4.7	8.0	2.3
27	3.7	43.8	11.0	90.0	328.0	57.1	3.0	1.8	2.6	4.4	7.0	2.3

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	SIRP RO L	LEAF RUST	STEM RUST	PLNT HT
			NOBS	(3)	(9)	(15)	(6)	(7)	(2)	(6)
28	U SASK HARVEY144-BAHTIM10 X CELAYA-CI3909 2 CMB76A-1008-B-5B-2Y-1B-1Y-3B-0Y			3626 7	103 1	119 3	33 2	37 3	-----	79 6
29	10876 1 X AV1-LOCAL DB/DL71-STRAIN20 CMB76A-1015-H-5B-1Y-1B-1Y-1B-0Y			3988 3	102 2	117 8	17 8	30 8	0 0	75 7
30	11012 2-MZG X MZG-BEN CMB76A-1021-A-4B-1Y-1B-1Y-1B-0Y			5193 3	106 0	118 6	10 5	4 1	5 0	84 8
31	API-CM67 X CG 20BILEE/INDIAN DHARF-CM67 X SV70 32431 CMB76A-1052-C-6B-0Y-1B-1Y-1B-0Y			3945 7	105 3	117 6	32 3	28 6	0.0	76 5
32	API-CM67 X FB(E/NYT72/NOPAL"S" X 330-AITIKI CMB76A-1074 E-4B-1Y-1B-1Y-1B-0Y			3088 7	99 2	118 9	32 8	30 6	0 0	70.0
33	CI424 X G 134-APM/BDGC-GAS X APM-HC1905 CMB76A-1112 A-1B-1Y-3B-1Y-1B-0Y			3319 0	107 8	121 8	32 3	15 6	0.0	69 8
34	ORE"S"-CI3909 2 M69 69-HJA C4715 X H M SEL10 CMB76A-1140 A-1B-1Y-2B-2Y-1B-0Y			2333 3	106 9	119 6	40 0	20 3	0 0	65.8
35	11012 2-CM67 X POR-U SASK1800/H272(L/11012 2-CM67 X POR-U SASK1800) CMB76A-1154-B-1B-1Y-3B-1Y-2B-0Y			2871 3	103 3	118.4	24.8	28.6	0.0	63 7
36	NOPAL (API-CM67 X APM-IB65/API-CM67 X II266 L2966 69) CMB77-136-10Y-1B-1Y-2L-2Y-0B			2692.3	97.2	113.3	49.0	33.6	15.0	66 2
37	11012 2-TERN X G 134-APM(DS403/CM67-U SASK1800 X PRL-CM67) CMB76A-1159-E-4B-2Y-1B-2Y-1B-0Y			3747 3	100 2	117 3	44 0	25 7	0.0	69 2
38	(NOPAL(MOR-BURF9 X PRO-TOL I/API))CI12125/API-CM67 X MZG CMB76A-1173-B 2B-1Y-2B-2Y-1B-0Y			4879.3	103 3	118 5	20.8	25 7	0 0	71.7
39	(NOPAL/API-CM67 X MZG)HOIZ-GUAJILLO CMB76A-1176-D-2B-1Y-1B-1Y-1B-0Y			3464.0	101 9	118 7	37 5	34 9	0 0	72.0
40	(CM67-U SASK1802 X DS-APRO 1Y/11012-CM67 X POR-U SASK1802)API-CM67 X GAS CMB76A-1189 A-4B-3Y-1B-1Y-1B-0Y			3975.0	102 9	118 5	33 8	24 3	0 0	75 5
41	(CM67-U SASK1802 X DS-APRO 1Y/11012-CM67 X POR-U SASK1802)API-CM67 X GAS CMB76A-1189 E-1B-1Y-2B-1Y-1B-0Y			4516 0	103 6	120 2	32.4	30.9	0.0	77 2
42	ORE"S" X API-CM67/MARI-COHO X MANCHU IA CMB76A-1199-A-1B-1Y-1B-1Y-2B-0Y			3808 7	102 1	119 6	42 8	20.6	0.0	69 7
43	ORE"S" X API-CM67/MARI-COHO X MANCHU IA CMB76A-1199-A 1B-1Y-1B-2Y-1B-0Y			2774.7	101 4	119.3	35.0	22.3	0.0	70 0
44	API-CM67 X CI16149/G 134-APM X EMIR-1606N1206N CMB76A-1215 B-1B-1Y-1B-2Y-2B-0Y			3641.7	105 8	116 4	32 6	16 7	0.0	74 3
45	G 134-APM X APB73 21(NOPAL(MOR-BURF9 X PRO/TOL I API-1 CMB76A-1231-B-1B-1Y-3B-3Y-2B-0Y			4897.3	104 8	118 4	28 3	21 4	0 0	73 5
46	(70 22101 X G 134 M64 69/GAS)M69 69-HJA C4715 X [illegible] CMB76A-1315 A-1B 1Y-1B-1Y-1B-0Y			3570 0	99 3	118 3	37 8	39 3	0 0	74 7
47	API-CM67 X AGER API-CM67 X 11012 2/TB) CMB76A-1367 D-2B-1Y-1B-1Y-1B-0Y			3269 0	103 3	118 7	49 2	30 6	0 0	75 2
48	RM150B-POR X W13269/M69 69-70 22435 MARIS DINGO CMB76B-1446 D-3B-3Y-1B-1Y-1B-0Y			3138 3	97 8	116 7	35 4	23 4	0 0	72 3
49	SD729-POR X [illegible] MR-GVA(BCO MR-AVT/PRO-TOL I X [illegible] 2)-TOL 1) CMB77-1730-3Y-1B-2Y-2B-2Y-0B			3367 3	97 0	117 2	36 8	23 3	0 0	70 0

VTY	LODG X	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HFL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
28	12.0	35.6	11.0	90.0	344.0	14.3	3.2	1.7	2.8	4.0	4.0	4.7
29	33.3	32.0	11.0	60.0	508.0	0.0	4.3	1.1	3.0	2.3	7.0	2.8
30	0.0	54.7	11.0	50.0	260.0	28.6	4.0	1.9	3.0	2.4	6.0	3.0
31	41.7	41.4	11.0	60.0	360.0	0.0	4.1	2.8	1.6	4.4	6.0	4.5
32	11.0	40.2	11.0	40.0	345.0	0.0	3.0	2.6	2.2	4.3	7.0	2.8
33	34.3	32.6	11.0	40.0	322.0	14.3	1.5	1.8	1.4	3.9	7.0	5.3
34	3.7	39.8	11.0	20.0	356.0	14.3	2.9	2.1	2.2	5.2	7.0	5.0
35	62.5	37.4	22.0	50.0	360.0	0.0	2.5	2.4	2.6	4.7	8.0	3.5
36	69.5	37.4	33.0	60.0	216.0	28.6	3.0	2.1	3.4	4.6	7.0	2.8
37	50.0	31.3	11.0	60.0	324.0	14.3	5.3	2.0	3.2	3.7	7.0	4.0
38	62.5	31.2	11.0	70.0	358.0	14.3	4.7	1.8	2.6	3.3	8.0	2.8
39	23.5	41.5	22.0	60.0	400.0	14.3	4.0	2.4	4.6	2.3	8.0	4.0
40	34.5	41.6	22.0	50.0	378.0	0.0	2.9	2.5	2.4	3.7	4.0	2.3
41	64.0	40.4	11.0	70.0	346.0	28.6	4.5	2.3	2.6	2.8	7.0	4.0
42	36.0	42.6	11.0	40.0	570.0	0.0	3.8	2.1	1.8	4.3	8.0	2.5
43	36.0	43.4	11.0	30.0	378.0	28.6	3.4	2.3	2.6	5.2	5.0	2.8
44	59.5	34.8	22.0	30.0	367.0	14.3	3.5	1.9	2.4	2.9	5.0	2.5
45	82.0	31.9	11.0	80.0	508.0	0.0	3.9	2.4	3.2	3.6	6.0	2.3
46	54.0	38.9	11.0	70.0	347.0	57.1	2.6	3.4	2.6	3.1	8.0	2.5
47	59.5	41.5	11.0	60.0	540.0	14.3	3.1	2.8	3.6	4.4	4.0	2.5
48	22.0	37.5	11.0	40.0	456.0	0.0	3.3	2.8	2.2	2.4	6.0	4.5
49	51.5	45.6	11.0	40.0	400.0	0.0	4.9	3.5	2.2	3.4	5.0	3.8

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	(3)	(9)	(15)	(6)	(7)	(2)	(6)
50	RM1508-POR X WI2269/M69 69-70 22435 MARIS DINGO CMB76A-1446-D-3B-3Y-1B-1Y-2B-0Y			3456.7	98.4	115.5	42.5	26.7	0.0	75.7
51	RM1508-POR X WI2269/M69 69-70 22435 MARIS DINGO CMB76A-1446-D-3B-3Y-1B-2Y-2B-0Y			2310.7	99.6	116.1	31.6	26.4	0.0	74.0
52	RM29-NORDIC F1/CM67-U SASK1800 X PRO CM67 ICB-3345-A-4B-3Y-2B-1Y-1B-0Y			4688.7	101.9	119.5	34.0	30.0	0.0	74.5
53	DL69-BAHTIM10 X H251 CMB76-765-A-1M-2Y-1B-1Y-1B-0Y			4331.3	100.4	121.1	25.8	53.4	0.0	76.3
54	(BEACON/CM67-U SASK1800 X PRO-CM67) CENTINELA CMB77-241-5Y-1B-1Y-1B-1Y-0B			3282.7	98.8	117.6	41.5	32.4	0.0	72.3
55	POR-U SASK1800 X CELAYA CMB77-1-11Y-2B-2Y-2B-2Y-0B			3128.3	100.9	119.0	30.8	29.6	0.0	61.7
56	CM67-U SASK1800 X PRO-CM67/CELAYA X DS-APRO CMB77-12-1Y-1B-1Y-2B-1Y-0B			4732.5	103.9	119.2	35.4	32.1	0.0	75.3
57	CELAYA(API-CM67 X APM-1B65/API-CM67 II266 L2966 69) CMB77-131-14Y-1B-1Y-1B-3Y-0B			3422.7	96.6	114.4	40.0	32.1	0.0	71.5
58	BAHTIM7-DL71 X MAN CMB76A-314-4M-1Y-1B-1Y-1B-0Y			4088.0	101.3	120.7	33.6	43.4	0.0	84.7
59	H272(MOR-BURF9 X PRO-TOL I/CER(2)-APM(2)) CMB76A-527-1M-3Y-1B-2Y-2B-0Y			3653.0	100.1	117.8	38.0	25.5	0.0	79.7
60	EMIR-NACKTA X 3604N/MASURKA CMB76A-721-3B-1Y-1B-1Y-1B-0Y			3396.7	103.6	119.7	36.0	37.6	0.0	80.0
61	CM67-U SASK1802 X DS-APRO 1Y/11012 2 TERN CMB76-304-21M-7Y-2B-1Y-7B-0Y			3813.7	102.7	118.1	21.0	24.3	0.0	76.5
62	HJA A33-TAL(DS505/POR-CB1053 X CM67) CMB76A-1106-B-2B-1Y-1B-1Y-1B-0Y			3412.7	104.7	121.2	3.3	37.0	0.0	76.3
63	(NOPAL"S"/CHOYA X DS-APRO)NOPAL"S" X 3309-ATTIKI CMB76A-1180-C-2B-2Y-1B-3Y-1B-0Y			3806.3	102.9	120.0	36.4	16.4	0.0	76.3
64	API-CM67 X CI08971/ORE"S" X POR-U SA K1766 CMB76A-1260 A-1B-1Y-2B-1Y-1B-0Y			3821.0	104.3	118.2	31.2	14.0	0.0	84.2
65	API-CM67 X EMIR 1606N1206N/HJA A33-UNION CMB76A-1265 A-2B-3Y-1B-1Y-1B-0Y			3032.0	107.2	120.1	20.0	14.9	0.0	80.8
66	SULTAN-NACKTA APM 1B65 X GVA(APM-HC1906 X APM-PL/BCD MR-GVA) CMB76A-1336-A-6B-1Y-1B-1Y-1B-0Y			3552.7	104.2	117.5	33.4	9.0	0.0	85.5
67	G 134-APM X CI08971/API-11012 2 X P71386 CMB76A-1362 A-1B-1Y-1B-2Y-1B-0Y			2731.3	101.6	117.2	27.4	16.6	0.0	80.8
68	(CAL MR X DS-APRO/GAS)11012 2-TERN X B112 CMB76A-1445 A-2B-1Y-1B-1Y-1B-0Y			4507.3	102.2	117.7	38.9	23.6	0.0	86.0
69	WW6201-ORE X NOPAL"S" CMB76-788-G-2M-1Y-1B-1Y-1B-0Y			3129.3	98.1	116.7	31.5	18.3	0.0	83.8
70	CM67-U SASK1800 X PRO-CM67(PRO-TOL I X CER(2)-TOL I 19106) CMB77-13-4Y-2B-1Y-1B-1Y-0B			2812.7	103.7	117.9	27.0	27.0	40.0	74.2
71	(CM67/SHI WOOD APRO X WA6704 62) H272 CMB77-15-4Y-2B-2Y-1B-1Y-0B			2921.3	105.4	120.2	40.4	27.1	0.0	70.6
72	POR-U SASK1766 X NOPAL CMB77-20-3Y-1B-2Y-1B-1Y-0B			3128.7	100.2	116.4	31.5	29.3	0.0	77.9

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HEL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
50	64.0	47.3	11.0	60.0	536.0	0.0	3.5	2.9	2.8	2.9	6.0	4.0
51	53.0	45.0	11.0	50.0	567.0	0.0	3.6	2.5	2.6	4.4	8.0	3.6
52	33.5	33.5	22.0	70.0	452.0	14.3	4.5	2.6	2.0	3.9	8.0	3.2
53	46.0	37.4	11.0	50.0	456.0	0.0	3.3	2.3	3.8	5.0	8.0	2.0
54	46.0	34.7	11.0	40.0	489.0	0.0	4.1	2.4	2.4	4.6	6.0	1.8
55	46.0	37.2	11.0	60.0	328.0	14.3	3.8	2.5	4.2	5.0	6.0	1.8
56	34.5	28.1	22.0	40.0	510.0	28.6	4.6	2.9	3.2	3.6	8.0	3.6
57	40.5	39.4	22.0	80.0	574.0	14.3	4.5	1.9	2.0	3.9	5.0	2.4
58	62.5	42.3	11.0	50.0	648.0	0.0	5.2	2.3	3.2	4.3	4.0	4.0
59	47.0	39.0	11.0	60.0	556.0	28.6	4.8	2.3	2.8	3.0	5.0	3.2
60	57.0	50.0	11.0	40.0	478.0	0.0	3.1	3.5	3.4	4.3	8.0	2.6
61	87.5	38.1	11.0	80.0	513.0	14.3	3.9	2.0	2.8	4.6	5.0	2.0
62	44.0	48.9	22.0	50.0	321.0	14.3	3.7	2.5	3.0	3.9	8.0	2.0
63	87.5	40.3	22.0	60.0	612.0	42.9	2.8	3.3	3.4	3.2	5.0	2.0
64	36.0	35.5	22.0	40.0	568.0	42.9	1.8	2.5	4.4	1.7	4.0	5.0
65	29.0	42.0	22.0	60.0	510.0	14.3	2.9	3.0	2.2	3.9	6.0	3.2
66	41.5	29.7	22.0	40.0	478.0	14.3	1.9	3.3	2.8	1.2	5.0	4.4
67	41.5	34.7	11.0	70.0	245.0	42.9	3.0	3.5	3.4	2.2	5.0	2.6
68	69.5	33.7	11.0	40.0	413.0	0.0	3.2	3.0	2.8	2.2	6.0	3.4
69	34.5	40.8	33.0	70.0	432.0	14.3	3.5	2.5	2.6	3.6	6.0	3.8
70	18.0	33.4	22.0	70.0	432.0	28.6	4.3	2.3	4.2	3.0	5.0	3.8
71	47.0	36.9	33.0	5.0	500.0	0.0	3.4	3.1	6.2	2.9	5.0	2.2
72	71.0	32.3	33.0	40.0	456.0	14.3	4.3	2.4	2.2	2.3	8.0	3.2

Table 2. (cont'd)

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	SHRP RT L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	(3)	(9)	(15)	(6)	(7)	(2)	(6)
73	11012 2-CM67 X POR-U SASK1800/CH-DU CMB77-38-8Y-1B-1Y-1B-1Y-0B			3419.3	102.9	117.7	32.7	27.4	0.0	83.0
74	CNZO/IRIS-M66 85 X RM150B-MANKER CMB77-92-11Y-2B-3Y-4B-1Y-0B			3744.7	102.9	118.2	40.2	26.9	0.0	81.7
75	API-E8489 B 2 15 4(PRO-TOL I X CER(2 -TOL I/5106) CMB77-97-3Y-1B-3Y-2B-1Y-0B			3838.3	100.7	116.0	40.6	22.4	0.0	75.5
76	(API-CM67 X APM-IB65/API-CM67 X II26 L2966 69)BEN CMB77-125-1Y-1B-1Y-2B-1Y-0B			3648.7	101.1	117.5	34.7	26.9	0.0	75.2
77	MANKER X API-CM67/CELAYA-CI3909.2 CMB77-169-10Y-1B-1Y-1B-1Y-0B			3313.3	99.7	117.6	37.7	22.9	60.0	76.8
78	BAMBA X JO-OALT/API-CM67 X 11012 2 CMB74A-1597-C-4B-1Y-1B-1Y-0B			3131.7	96.0	115.1	47.2	30.0	10.0	76.3
79	MINN480-GVA X 11012 2-TERN CMB77-192-1[illegible]Y-1B-1Y-1B-1Y-0B			4076.3	100.4	115.7	29.2	26.9	0.0	81.8
80	(CM67/APRO X SV02109-MARI)IRIS CMB77-211-3Y-1B-1Y-2B-1Y-0B			3795.3	101.9	114.9	28.0	10.7	0.0	79.2
81	APM-GVA X ORE"S"/API-CM67 X MZQ CMB77-225-19Y-2B-2Y-1B-1Y-0B			4157.3	103.4	118.1	30.9	35.1	0.0	74.5
82	69 B2-MONA X MARIS DINGO CMB77-265-1Y-1B-1Y-1B-1Y-0B			3332.7	109.3	122.9	6.0	27.4	0.0	76.8
83	DWG1-API(3) X MARI(AS46-KRISTINA/ APM-DWARF21 X POR-IB65) CMB77-291-1Y-1B-1Y-1B-2Y-0B			4027.3	99.8	118.2	6.0	22.0	0.0	72.0
84	MARI-COHO/API-CM67 X BUS CMB77-378-6Y-1B-1Y-1B-2Y-0B			3388.0	102.3	118.4	35.2	30.1	0.0	70.8
85	MARI-COHO(PRO-W12197/APM-KN27 X DZ02 391) CMB77-379-1Y-1B-1Y-2B-1Y-0B			2960.7	102.6	114.3	32.7	24.7	0.0	73.8
86	MARI-COHO X 11012 2-P12900 CMB77-403-7Y-3B-1Y-2B-1Y-0B			3876.3	105.9	122.5	25.0	25.3	0.0	76.5
87	CM67-MANKER X CHOYA-GALT CMB77-429-1Y-4B-1Y-1B-1Y-0B			3763.7	106.1	116.2	43.3	17.5	0.0	74.8
88	NP842-APM X CM67-U SASK1800/AVT-1101 2 CMB77-449-3Y-2B-2Y-1B-2Y-0B			5105.3	96.0	116.7	49.2	58.3	0.0	77.7
89	(CR115-POR X BC(API-CM67)CELAYA-CI39 9.2 CMB77-455-15Y-1B-2Y-1B-1Y-0B			3880.0	101.2	117.1	31.8	20.9	0.0	77.3
90	API-CM67 X 11266 L2966 69 CMB74A-97[illegible]-1B-1Y-1B-1Y-1B-0Y			3869.7	101.3	117.1	41.0	28.6	0.0	81.8
91	(CR115-POR X BC/API-CM67)CELAYA-CI39 9.2 CMB77-455-10Y-3B-3Y-1B-1Y-0B			4177.0	106.9	120.1	37.0	28.4	60.0	76.7
92	BCO MR X DS-APRO/APM-5106 CMB77-461-10Y-3B-2Y-1B-2Y-0B			3880.3	102.3	118.4	37.0	42.7	0.0	77.7
93	BAL16-11012 2 X CELAYA-CI3909.2 CMB77-465-5Y-1B-2Y-1B-1Y-0B			4304.0	102.0	118.4	35.0	35.7	0.0	74.2
94	M64 69-M65 211 X XV2240:CM67-U SASK1 00 X PRO-CM67/CELAYA) CMB77-485-1Y-1B-1Y-2B-1Y-0B			3775.0	100.7	117.1	47.5	33.7	0.0	78.7
95	NORAL"S"-ND4002 CMB77-696-5Y-2B-1Y-2B-1Y-0B			2926.3	100.7	113.8	37.7	9.8	0.0	74.0
96	ORE"S"-ROBUR CMB77-708-20Y-1B-2Y-3B-2Y-0B			4018.3	103.6	118.5	22.2	25.6	0.0	76.8
97	SD729-POR X AGER CMB77-810-20Y-1B-1Y-1B-1Y-0B			3152.3	105.2	119.5	43.0	32.9	0.0	77.7
98	CM67-U SASK1800 X PRO-CM67/4476W X EM18-NACKTA CMB77-937-8Y-2B-1Y-2B-1Y-0B			4066.3	103.4	119.8	26.8	11.2	0.0	75.8

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HEL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
73	57.0	36.5	11.0	30.0	367.0	14.3	5.1	2.0	3.2	2.6	6.0	3.0
74	59.5	36.9	11.0	70.0	400.0	14.3	2.7	3.5	5.0	3.0	6.0	2.2
75	28.0	29.7	22.0	40.0	580.0	0.0	3.2	2.6	3.6	1.5	7.0	3.2
76	46.0	49.0	22.0	50.0	616.0	14.3	3.3	2.6	6.6	2.7	6.0	1.4
77	40.5	35.0	11.0	60.0	432.0	28.6	3.3	3.1	2.6	2.5	4.0	3.4
78	47.0	31.6	11.0	70.0	378.0	14.3	3.8	3.4	5.6	5.0	6.0	2.2
79	47.0	70.8	11.0	60.0	456.0	14.3	2.4	2.8	2.4	2.4	6.0	2.6
80	41.5	27.2	22.0	50.0	450.0	57.1	2.9	3.8	5.0	3.3	8.0	2.2
81	58.5	34.4	33.0	40.0	438.0	14.3	3.3	2.9	3.2	3.0	6.0	3.0
82	50.0	35.5	22.0	50.0	512.0	0.0	1.4	2.9	1.8	2.8	2.0	2.0
83	25.0	33.7	33.0	70.0	348.0	0.0	2.8	2.5	2.4	3.3	6.0	4.0
84	22.0	39.3	22.0	50.0	330.0	0.0	3.2	2.5	2.2	3.0	6.0	4.0
85	62.5	40.1	11.0	30.0	332.0	0.0	3.4	2.0	3.0	3.4	6.0	3.4
86	18.0	42.1	11.0	30.0	348.0	14.3	1.9	2.5	2.6	2.8	7.0	3.4
87	75.0	49.3	11.0	20.0	560.0	14.3	3.3	2.1	2.8	3.7	6.0	2.0
88	75.0	36.8	22.0	30.0	668.0	14.3	3.7	2.3	2.8	2.9	6.0	2.4
89	23.5	35.6	11.0	50.0	612.0	28.6	2.8	2.0	2.2	1.8	3.0	3.8
90	29.0	40.5	11.0	20.0	560.0	0.0	3.3	1.7	3.6	2.8	6.0	2.8
91	18.0	28.6	22.0	70.0	312.0	42.9	3.4	1.4	2.8	2.2	2.0	2.2
92	69.5	33.8	22.0	60.0	408.0	0.0	3.9	3.6	2.0	2.8	4.0	3.0
93	53.0	40.5	22.0	80.0	400.0	0.0	4.7	1.9	1.8	3.6	3.0	4.2
94	40.5	39.2	11.0	60.0	325.0	0.0	4.5	2.6	1.8	4.4	4.0	3.2
95	75.0	40.6	33.0	70.0	210.0	0.0	4.8	3.2	3.2	5.2	7.0	2.4
96	75.0	33.0	22.0	70.0	238.0	28.6	3.8	2.9	2.2	3.9	4.0	2.6
97	50.0	35.4	11.0	80.0	423.0	0.0	3.6	2.8	2.8	2.5	6.0	3.2
98	44.5	25.9	22.0	40.0	320.0	14.3	3.5	2.9	3.8	4.2	7.0	3.2

Table 2. (cont'd)

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	3)	(9)	(15)	(6)	(7)	(2)	(6)
99	API-CM67 X MZQ/CI16155 CMB77-939-1Y-4B-1Y-1B-1Y-0B			5070.0	113.9	121.8	30.0	9.9	0.0	79.0
100	APIZACO			4655.7	107.4	121.4	36.9	23.3	0.0	81.3
101	(APM-IB65 X 11012 2/API-CM67 X DS-APRO)2762-BC CMB77-994-3Y-1B-1Y-1B-1Y-0B			3295.7	107.8	119.5	29.9	33.3	0.0	72.8
102	CELAYA-CI3909 2 X T.C CMB77-1013-2Y-2B-1Y-1B-1Y-0B			2981.7	103.8	118.8	33.0	33.3	0.0	79.8
103	CELAYA-CI3909 2 X 2762-BC CMB77-1015-17Y-4B-1Y-1B-1Y-0B			3589.7	105.9	120.2	36.7	40.0	0.0	82.3
104	API-CM67 X DL71/ROW906 73 CMB77-1097-11Y-1B-2Y-1B-1Y-0B			2951.0	102.3	117.6	19.0	58.3	60.0	74.2
105	API-CM67 X DL71/ROW906 73 CMB77-1097-11Y-1B-3Y-1B-1Y-0B			5040.0	102.4	119.1	20.7	56.3	40.0	78.8
106	API-CM67 X HBCCXXVIII/D.P CMB77-1100-17Y-2B-1Y-1B-1Y-0B			5755.7	97.3	113.6	41.7	33.3	0.0	78.8
107	API-KRISTINA X 11012 2-MONA/ROW134 7 CMB77-1119-3Y-13-1Y-1B-1Y-0B			2296.0	102.7	113.4	30.6	33.0	0.0	75.0
108	API-KRISTINA X 11012 2-MONA/RPB73 10 CMB77-1120-22Y-1B-1Y-2B-2Y-0B			3595.7	104.1	115.6	30.2	12.3	0.0	74.8
109	API-KRISTINA X 11012 2-MONA/RPB73 10 CMB77-1120-22Y-1B-2Y-1B-1Y-0B			4028.7	106.2	116.1	24.0	12.1	0.0	74.0
110	CELAYA-CI3909 2 X CI1021 CMB77-1129-10Y-1B-3Y-1B-1Y-0B			4071.3	102.3	117.6	34.3	19.4	80.0	82.5
111	PYO-UMN BARLEY RA55309 CMB77-1140-3Y-1B-1Y-1B-1Y-0B			3503.7	103.0	116.7	32.0	30.0	0.0	84.7
112	UMN RA55141(PRO-TOL I X CER(2)-TOL I 5106) CMB77-1162-17Y-1B-2Y-3B-1Y-0B			4159.3	102.1	120.4	31.6	32.7	0.0	80.0
113	(INDIAN DWARF-CM67/CM67-PA50 X HJA L 1)API-CM67 X DL71 CMB77-1237-C-1Y-1B-2Y-1B-1Y-0B			3248.0	105.6	117.1	21.4	15.0	0.0	73.8
114	(11012 2-CM67 X POR-U SASK1800/SUWON N0201)GUAJ"S" CMB77-1238-H-1Y-1B-3Y-1B-1Y-0B			4175.3	99.5	116.7	31.8	15.4	0.0	77.8
115	CENTINELA/CM67-U SASK1800 X PRO-CM67 BCO MR X DS-APRO/HULLESS-CQ) CMB77-1250-C-4Y-1B-1Y-1B-1Y-0B			5260.7	100.1	117.9	31.2	41.3	0.0	75.8
116	ENSENADA/CI3909 2 X M66 151-MANKER[(M67/APRO X SV02109-MARI)ENSENADA] CMB77-1254-B-1Y-1B-1Y-1B-1Y-0B			3364.7	100.4	116.6	44.8	22.8	60.0	80.5
117	ENSENADA/CI3909 2 X M66 151-MANKER[(M67/APRO X SV02109-MARI)ENSENADA] CMB77-1254-D-4Y-1B-1Y-1B-2Y-0B			4251.3	99.1	116.2	35.0	28.9	0.0	81.7
118	API-CM67 X CHOYA-GALT(CAL MR X DS-APRO/API-CM67) CMB77-1269-D-2Y-2B-1Y-1B-1Y-0B			3738.7	102.0	116.9	22.2	30.0	0.0	76.5
119	API-CM67 X CHOYA-GALT(CAL MR X DS-APRO/API-CM67) CMB77-1269-D-4Y-1B-1Y-1B-2Y-0B			5131.0	102.9	117.3	16.4	23.9	5.0	83.8
120	M69 69-70 22435 X 11012 2-5106/BIZ-JUNIOR CMB77-1300-C-1Y-1B-1Y-1B-1Y-0B			5975.7	111.1	120.6	33.3	21.7	0.0	79.3
121	[(BAL16-MZQ/M67 1B-M14 X DS-APRO) POR-U SASK1766 X BENJAVT-11012 2 X MZG-GVA CMB77-1430-L-4Y-2B-2Y-2B-2Y-0B			6336.7	109.1	121.9	44.0	34.8	5.0	81.3
122	[CI3909 2 X M66 151-MANKER(APM-IB65/ API-CM67 X DS-APRO)]M69 69-70 22435 11012 2-5106 CMB77-1452-J-2Y-1B-1Y-2B-1Y-0B			3649.7	103.3	117.4	60.0	25.5	0.0	70.5

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
99	5.5	28.4	22.0	50.0	546.0	28.6	0.7	3.0	1.8	3.5	4.0	2.4
100	29.0	38.4	22.0	70.0	556.0	0.0	4.0	2.1	2.2	4.8	4.0	4.6
101	57.0	31.8	11.0	50.0	168.0	0.0	3.1	1.9	2.0	4.0	6.0	4.8
102	34.5	41.7	11.0	70.0	256.0	28.6	3.5	2.0	2.6	2.6	6.[illegible]	4.8
103	47.0	40.0	11.0	50.0	323.0	28.6	3.9	2.0	2.8	3.0	5.0	4.2
104	46.0	33.0	11.0	60.0	292.0	42.9	1.9	1.7	1.6	3.5	5.0	2.4
105	41.5	36.8	11.0	70.0	614.0	42.9	2.2	2.9	1.8	2.7	5.0	3.2
106	44.5	32.0	11.0	60.0	628.0	0.0	4.0	4.4	3.2	3.3	6.0	2.4
107	57.0	35.1	11.0	80.0	312.0	14.3	3.8	2.8	3.4	3.5	6.0	3.8
108	16.5	27.5	11.0	50.0	350.0	0.0	4.1	2.5	3.0	3.2	6.0	4.2
109	16.5	35.1	11.0	30.0	400.0	0.0	3.1	2.3	3.0	3.4	6.0	4.6
110	58.5	27.6	11.0	60.0	624.0	28.6	4.0	2.3	2.8	3.8	3.0	2.6
111	51.5	35.1	22.0	30.0	318.0	28.6	3.3	3.1	3.0	2.2	3.0	3.0
112	46.0	33.2	22.0	60.0	412.0	28.6	3.7	2.5	3.6	3.5	6.0	5.2
113	62.5	35.8	22.0	20.0	568.0	0.0	3.6	2.6	3.4	3.6	5.0	4.2
114	39.0	43.1	11.0	60.0	448.0	0.0	2.6	3.5	4.2	3.2	5.0	4.6
115	5.5	51.7	11.0	30.0	660.0	14.3	3.7	2.9	5.0	3.0	8.0	2.8
116	57.0	45.1	33.0	30.0	348.0	0.0	3.4	2.9	2.0	4.1	5.0	2.4
117	53.0	36.2	11.0	30.0	434.0	14.3	2.6	2.9	2.8	3.2	6.0	3.0
118	51.5	37.2	11.0	50.0	312.0	14.3	3.5	2.5	3.8	3.3	7.0	1.6
119	5.5	42.2	11.0	60.0	454.0	42.9	2.9	2.6	2.4	2.4	4.0	4.2
120	11.0	34.8	11.0	10.0	560.0	14.3	2.3	2.9	3.2	3.0	6.0	4.2
121	57.0	33.5	11.0	40.0	545.0	28.6	3.6	3.0	2.0	2.6	5.0	4.2
122	87.5	42.1	33.0	40.0	660.0	0.0	3.0	2.3	3.6	4.0	5.0	3.5

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	(3)	(9)	(15)	(6)	(7)	(2)	(6)
123	API-CM67 X 11012 2/SMAI 3S 6W BC(CM6 /APRO X SV02109-MARI)ENSENADA1 CMB77-1585-E-2Y-1B-1Y-1B-2Y-0B			5597.3	99.3	117.0	51.7	26.4	0.0	79.8
124	PUEBLA X BCO MR-MZQ CMB76A-10-18Y-1B-1Y-2B-2Y-0B			5714.0	102.3	117.3	42.5	23.1	0.0	75.0
125	PUEBLA X BCO MR-MZQ CMB76A-10-6Y-1B-1Y-1B-1Y-0B			4766.0	102.8	116.9	21.6	20.9	0.0	70.7
126	CELAYA"S"-5106 X CELAYA-CI3909.2 CMB76A-172-21Y-1B-1Y-1B-1Y-0B			4643.0	104.9	119.4	40.7	23.9	0.0	79.2
127	(BAL16-MZQ/M67 1B-M14 X DS-APRO)IRIS CMB76A-338-1Y-1B-1Y-1B-1Y-0B			5378.7	101.1	117.8	21.3	14.4	0.0	80.8
128	ABN-CENTINELA/M69 69-HJA C4715 X DS-APRO CMB76A-1675-D-2Y-1B-1Y-1B-1Y-0B			3123.3	105.2	120.1	18.1	18.4	0.0	80.2
129	CELAYA X MZQ-GVA CMB76A-4-1B-1Y-1B-2Y-1B-0Y			3732.0	101.7	117.8	18.0	16.3	0.0	72.2
130	CHOYA X DS-APRO/DL70-DZ02 27B CMB76A-91-5B-1Y-1B-2Y-1B-0Y			4178.0	102.8	117.3	18.0	25.7	0.0	73.8
131	APM-1865 X 11012 2/API-CM67 X DS-APRO)NACTA CMB76A-151-4B-1Y-1B-4Y-1B-0Y			3383.0	105.7	120.3	28.0	43.6	0.0	72.2
132	(PRO-TOL I X CER(2)-TOL I/5106)CELAY -CI3909.2 CMB76A-172-6B-1Y-1B-1Y-1B-0Y			3163.3	104.0	118.6	61.7	25.1	0.0	74.2
133	MANKER X API-CM67/DL70-DZ02 27B CMB76A-299-3B-2Y-1B-2Y-1B-0Y			3149.7	104.1	120.1	33.0	28.8	0.0	74.5
134	SIBIRI"S" CMB76A-383-1H-1Y-1B-1Y-1B-0Y			4067.3	108.6	121.6	45.1	31.0	0.0	68.0
135	(POR-EB1053 X CM67/M64 76)BDGC-GAS CMB76A-387-1H-1Y-1B-1Y-2B-0Y			5054.7	110.5	120.7	43.3	21.3	0.0	67.2
136	(BCO MR-AVT/PRO-TOL I X CER(2)-TOL I MONA-EMIR CMB76A-408-2B-1Y-1B-1Y-1B-0Y			4796.5	107.8	120.4	24.4	39.4	0.0	75.0
137	MAT RAS61032 X APM-GVA CMB75-922-1Y-1B-1Y-2B-1Y-0B			3439.7	112.0	125.4	24.6	31.6	0.0	61.6
138	ORE"S" X EMIR-NACKTA/AST9071 CMB76A-427-1H-1Y-1B-1Y-1B-0Y			3555.3	109.0	122.0	32.5	33.3	20.0	66.0
139	EMIR-NACKTA X NOPAL"S" CMB76A-732-3B-1Y-1B-2Y-1B-0Y			2334.3	118.4	124.5	9.6	41.7	0.0	70.2
140	(FELDA-RIKA X BAL-RIKA/ORTOLAN)B1 CMB76A-760-6H-1Y-1B-2Y-2B-0Y			2623.3	109.1	122.6	8.3	23.4	0.0	70.5
141	D P/API-CM67 X DL71 CMB76A-859-1B-1Y-1B-2Y-2B-0Y			1063.0	118.4	115.8	9.0	17.4	0.0	67.8
142	ORE"S" X API-CM67 CMB76-322-13H-1Y-1B-1Y-1B-0Y			3639.3	104.7	114.8	34.0	32.1	40.0	69.2
143	API-CM67 X NUDINKA CMB76-416-9M-2Y-1B-1Y-1B-0Y			3628.7	110.0	125.5	19.7	22.7	20.0	70.5
144	API-CM67 X NUDINKA CMB76-416-9M-2Y-1B-1Y-2B-0Y			4233.0	110.1	122.1	18.7	21.9	40.0	68.0
145	API-CM67 X EMIR/NACKTA-MGH6355 CMB76-417-2M-2Y-1B-3Y-1B-0Y			3345.3	109.1	123.3	16.8	32.9	0.0	66.0
146	SULTAN-NACKTA/APM-1865-GVA CMB76-671-9M-1Y-2B-1Y-1B-0Y			4719.3	121.4	120.6	11.6	29.9	40.0	73.0
147	APM-RL X API-CM67/ORE"S" CMB76A-970-C-5B-1Y-1B-1Y-1B-0Y			4020.0	105.6	117.2	37.3	21.0	0.0	72.2
148	CELAYA X APM-HC1905/API-CM67 X CHE C 9185 CMB76A-1028-B-5B-3Y-1B-2Y-1B-0Y			3169.0	105.5	120.4	33.5	20.0	0.0	70.3
149	ORE"S"-MZQ X HOIZ-CI08985 CMB76A-1145-A-6B-3Y-1B-3Y-2B-0Y			2991.3	108.3	124.3	37.8	33.4	60.0	64.8

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HI L S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
123	51.5	45.6	22.0	50.0	678.0	28.6	3.2	2.9	1.8	3.4	4.0	3.0
124	16.5	32.6	11.0	50.0	612.0	14.3	3.5	2.4	3.4	4.2	4.0	4.5
125	51.5	35.8	11.0	60.0	564.0	0.0	4.8	1.7	3.0	2.8	6.0	3.8
126	5.5	33.5	11.0	40.0	680.0	14.3	3.4	2.4	3.0	3.2	6.0	2.8
127	34.5	32.0	11.0	60.0	516.0	0.0	4.8	2.5	3.2	3.9	5.0	3.2
128	34.5	30.4	22.0	50.0	312.0	0.0	4.8	2.4	3.0	3.0	7.0	4.2
129	5.5	22.4	11.0	25.0	340.0	14.3	3.9	2.8	3.0	3.6	6.0	2.8
130	39.0	25.7	11.0	10.0	540.0	0.0	3.4	2.9	3.4	3.0	6.0	3.8
131	89.0	43.0	11.0	5.0	340.0	0.0	3.8	3.0	2.5	3.7	5.0	3.5
132	5.5	30.6	11.0	5.0	340.0	28.6	4.0	2.5	2.4	3.8	2.0	4.6
133	50.0	27.5	11.0	8.0	356.0	0.0	4.9	2.3	2.8	2.3	7.0	4.2
134	33.5	37.7	11.0	5.0	568.0	0.0	2.9	2.0	3.0	4.2	4.0	4.6
135	50.0	32.0	11.0	10.0	510.0	0.0	2.9	2.5	3.0	4.3	3.0	4.0
136	11.0	37.6	11.0	8.0	400.0	28.6	1.7	2.6	2.8	3.1	5.0	4.8
137	44.5	35.0	0.0	10.0	438.0	14.3	2.9	3.5	2.4	4.3	3.0	5.0
138	50.0	32.4	0.0	5.0	412.0	0.0	3.3	2.5	2.4	2.3	5.0	4.0
139	5.5	47.4	0.0	2.0	226.0	14.3	1.5	3.1	3.5	3.1	4.0	1.7
140	62.5	32.5	0.0	5.0	312.0	28.6	2.3	2.2	2.6	2.9	6.0	4.2
141	39.0	41.9	11.0	2.0	128.0	14.3	2.5	2.3	2.8	2.3	5.0	2.7
142	33.5	39.3	22.0	20.0	450.0	14.3	4.3	2.3	2.8	3.7	4.0	2.6
143	46.0	24.9	11.0	2.0	500.0	0.0	2.8	2.6	3.2	4.0	4.0	4.0
144	50.0	23.3	11.0	5.0	568.0	0.0	3.2	2.4	2.6	3.8	4.0	4.6
145	5.5	25.9	11.0	10.0	324.0	28.6	1.8	3.0	2.6	2.2	4.0	5.6
146	5.5	32.4	11.0	15.0	500.0	0.0	1.5	2.4	2.4	2.9	-----	4.2
147	89.0	27.4	11.0	50.0	560.0	0.0	3.7	2.6	2.6	3.0	5.0	4.6
148	11.0	31.8	22.0	20.0	432.0	0.0	2.3	2.1	2.4	3.8	5.0	4.0
149	43.0	31.2	22.0	10.0	336.0	14.3	3.3	2.1	3.0	4.7	6.0	3.6

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	SIRP RI L	LEAF RUST	STEM RUST	PLNT HT
			NOBS	(3)	(9)	(15)	(6)	(7)	(2)	(6)
150	ORE"S" X API-CM67/MARI-COHO X MAN CMB76A-1199-F-19-3Y-1B-2Y-1B-0Y			6196 7	104.0	122 C	38 5	34 6	20 5	75 0
151	(Q 134-APM/436B-EMIR X NACKTA-MGH635)INDIAN DWARF-CM67 X C114064 CMB76A-1369-A-1B-2Y-1B-2Y-1B-0Y			4775 3	102 9	121 5	25 8	29 4	0 0	70.2
152	11012 2-MINN90"(SP(2H) X CR115-FOR/ 5106) CMB74A-1287-B-3B-1Y-1B-1Y-1B-0Y			3995 0	104 8	125 3	42 9	49 1	0 0	78 7
153	M69 69-HJA C4715/APM-EB1053 X POR- DWARF21 CMB76-120-5Y-1B-1Y-1B-3Y-0B			4125.0	101.1	119 0	21.5	31 5	40 0	77 7
154	11012 2-CM67 X POR-U SASK1800/APM- HC1905 CMB76-265-30Y-1B-1Y-1B-3Y-0B			4118 3	103 4	121.2	32 8	13.8	0 0	70 7
155	Q 134-APM X MEDUSA-DIAMANT CMB76-422-10Y-1B-3Y-1B-4Y-0B			2689.3	104 1	118.0	34 7	14 1	0.0	69 3
156	CH-DU X BCO MR-GVA(CG-CM X APM/ORE"S) CMB76-970 C-4Y-1B-2Y-1B-1Y-0B			4029.3	106 0	121 8	34.0	23 0	0 0	69.7
157	CM67-U SASK1600 X PRO-CM67(PRO-TOL I X CER(2)-TOL I/5106) CMB77-13-7Y-1B-1Y-1B-2Y-0B			3640.3	104 6	118 6	29 5	27.3	0.0	67.3
158	BCO MR-MZ0 X P71318-M66 B5/BDGC-GAS CMB77-149-8Y-1B-1Y-3B-1Y-0B			3740.0	103.9	116 8	43 3	31.1	0.0	60.5
159	BCO MR-MZ0 X P71318-M66 B5/BDGC-GAS CMB77-149-8Y-1B-2Y-1B-1Y-0B			4025.7	103.6	118 8	46.7	33.2	0.0	59.0
160	MINN480-GVA X 11012 2-TERN CMB77-192-13Y-1B-3Y-1B-2Y-0B			4041.7	102 6	115.9	53 3	10.1	0.0	81.8
161	MANKER X API-CM67(PRO-TOL I X CER(2) -TOL I/5106) CMB77-353-2Y-1B-1Y-1B-2Y-0B			3390.3	111.6	121 5	71.7	13.5	0 0	79 2
162	BCO MR X DS-APRO/APM-5106 CMB77-461-5Y-1B-3Y-1B-2Y-0B			3818.3	95 4	119 8	17.5	22.9	60.0	69.5
163	69 B2 X APM-IB65/CI3909 2 CMB77-468-2Y-1B-1Y-1B-1Y-0B			2332.7	107 3	116 0	2.9	41 1	0.0	60 0
164	EMIR-SHABET X CM67/NIGRATE CMB77-1029-1Y-1B-2Y-2B-1Y-0B			3136.7	110.3	123.1	10 2	14.4	40.0	70.5
165	EMIR-SHABET X CM67/NIGRATE CMB77-1029-4Y-1B-1Y-1B-1Y-0B			6435.0	105.6	118 4	15.5	20.2	0 0	73 3
166	API-CM67 X HBCC(XXVIII/D P CMB77-1100-21Y-3B-2Y-1B-3Y-0B			6968.5	108 8	123 3	27.0	32 0	60 0	77.7
167	CM67-GVA X API-EB489 B 2 15 4(CAL MR X DS-APRO(PRO-TOL I X CER(2)-TOL I/ 5106)) CMB77-1267-B-1Y-1B-1Y-1B-1Y-0B			2957.0	110 5	125.2	30 7	18.5	20.0	59 0
168	(CM67-U SASK1800 X PRO-CM67[(BRA- TRA X CER(2)/AVT(2)-K1 X TOL I-B2) AVT-CH1)CHOYA X DS-APRO/DL70-DZ02 27 CMB77-1476-C-1Y-2B-1Y-2B-1Y-0B			4049.3	102 3	120 1	33.5	46 3	0.0	79 2
169	CHZO"S"/PRO-TP X CO-APIC(APM-IB65 X WEEAH/BCO MR-MZ0)CELAYA X DS-APRO] CMB77-1491-B-1Y-1B-3Y-1B-1Y-0B			3327.3	105 6	119.1	29 8	30 6	60 0	78 7
170	(TERN-JULIA X C7305-APRO/CI13001) CHZO-H M SEL10 CMB77-1570 C-1Y-3B-1Y-1B-1Y-0B			3661 0	101 4	118.7	39 5	36 3	0 0	75 7
171	CI15475 X CELA(6"S"-5106/H272 X 1101 2-CHE CMB77-1673-E 1Y-3B-1Y-3B-1Y-0B			4597 0	102.0	120 0	27.3	31 4	35 0	79 7
172	(FELDA-RIKA X BAL-RIKA/ORTOLAN)ARAMI]BDGC-GAS X CI15475 CMB77-1633-E-1Y-1B-1Y-1B-0Y			2990.0	103 7	121 1	18 3	26.9	0 0	74 2
173	D P/API-CM67 X DL71[(M66 91-M65 94 X 70 22109/APM-IB65)HULLESS-CG] CMB77-1709-A-2Y-1B-3Y-1B-1Y-0B			3101 3	107 6	121 9	17.3	33 9	0 0	79 5

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
150	65 5	38. 4	11 0	20 0	600 0	14 3	3 1	3 4	2 8	3 9	6 0	3 8
151	51. 5	26 1	11 0	10 0	428 0	0 0	3.0	2 6	2.2	4 4	6 0	3.2
152	57 0	30 5	22.0	10 0	372 0	0 0	3 5	2.5	1.0	4 3	2 0	2 8
153	50.0	31 2	22 0	5 0	368 0	0.0	3 1	2.6	2.4	2 8	5.0	3.6
154	0 0	36 2	22 0	8 0	384 0	14 3	3.4	3.0	2.8	3 0	5 0	4.6
155	64 0	36 6	33 0	10 0	256 0	14.3	3 1	2 3	2.8	2 7	6 0	3.6
156	57 0	29 3	11 0	20.0	392.0	0 0	3.5	2.0	2.6	3 0	1 0	4 2
157	69.5	30 5	11 0	5 0	300 0	0.0	3.9	1.7	3.4	3 1	5 0	4.2
158	75 0	32 3	11 0	20 0	200.0	0.0	2 4	2.9	2.8	3 4	3.0	3.0
159	75 0	32 5	22.0	25 0	292 0	0 0	2.7	3.4	2.8	4.3	5.0	3.2
160	87 5	35 9	11 0	25 0	268.0	0 0	3 9	2.9	2.6	4 0	5 0	4.2
161	54 0	46 1	11.0	8 0	288.0	0.0	2.6	2.1	2.0	3.5	2.0	5 6
162	82 0	34 1	44 0	10 0	304.0	0 0	4 2	3.0	2.2	4 0	6 0	4 8
163	57 0	23 1	11 0	10 0	404 0	0 0	3 2	2 8	2.2	4 6	5.0	4 6
164	16 5	35 4	11 0	5 0	408 0	0 0	2 5	2.5	2.2	2 7	5.0	4.4
165	39 0	34 2	0.0	20 0	440 0	14 3	2 9	3 5	2 6	2 9	6 0	2 6
166	29 0	38 7	33.0	10 0	316 0	0.0	3 5	2.8	3.6	1.9	4 0	3 2
167	11 0	27 6	22 0	8.0	392.0	14 3	4.7	1.8	2.6	3 6	2 0	4 0
168	16.5	34 7	22 0	20 0	280.0	0 0	2 2	2.1	2.8	2 0	5 0	4.8
169	61.0	28 6	22.0	30.0	424.0	14.3	2.7	2.8	1.6	3 0	6.0	4.8
170	39.5	34 9	22 0	25.0	400.0	28.6	2.4	2 6	4.6	2 7	4 0	3 6
171	89 0	30 2	22 0	20 0	364.0	14.3	4.1	2 5	0.8	2 4	[illegible] 0	4 0
172	22 0	28 2	11 0	5 0	296.0	0.0	2 3	1 6	2.8	3 2	3 0	3 4
173	16 5	39 0	33 0	5 0	352 0	0.0	2 9	1.6	2.4	3 9	4 0	3 4

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/PA	FLOW DAYS	MAT DAYS	SIRP RT L	LEAF RUST	STEM RUST	PLNT HT
			NOBB	(3)	(9)	(15)	(6)	(7)	(2)	(6)
174	MZQ X MASWI-BON CMB76A-17-7-2B-2Y-2B-1Y-0B			5143.3	104.1	120.6	23.0	25.0	0.0	80.5
175	M69 77-SHI P KCI N087 X CELAYA"S"-5106 CMB76A-96-12Y-1B-2Y-2B-2Y-0B			3147.7	109.3	119.8	6.2	27.8	0.0	68.7
176	BCO MR-MZQ X APM-5106 CMB76A-165-12Y-1B-2Y-2B-1Y-0B			2310.7	110.8	116.5	10.1	41.3	40.0	67.5
177	BCO MR-MZQ X APM-5106 CMB76A-165-19Y-1B-1Y-1B-1Y-0B			3901.7	102.1	113.2	47.5	32.5	0.0	70.7
178	NACTA-WI2198 CMB76A-262-5Y-1B-1Y-1B-1Y-0B			2250.3	104.9	120.1	18.0	34.6	0.0	68.0
179	EMIR-NACKTA X 3604N/MASURKA CMB76A-721-7B-1Y-1B-1Y-1B-0Y			3814.0	113.7	124.6	10.7	17.7	0.0	76.8
180	SIRI H-MT6B1K-CLIPPER CMB76A-775-1B-2Y-1B-3Y-1B-0Y			3709.3	125.0	126.8	15.3	20.9	20.0	84.5
181	D P X MINN480-GVA CMB76A-862-1B-4Y-2B-1Y-2B-0Y			3418.0	117.6	119.7	23.3	14.4	0.0	78.3
182	CM67-U SASK1602 X DS-APRO 1Y/11012 2 TERN CMB76-304-11H-1Y-2B-1Y-1B-0Y			3419.3	115.9	119.1	16.8	26.0	0.0	78.5
183	MONA-EMIR X BCO MR-GVA CMB76-522-1Y-2B-7Y-1B-1Y-0B			3302.7	109.6	119.7	31.2	21.7	0.0	76.8
184	POR-U SASK1806 X 11012 2-TERN CMB77-3-11Y-1B-2Y-1B-3Y-0B			3043.0	111.1	118.8	66.7	48.0	0.0	71.0
185	CM67-U SASK1600 X PRO-CM67/NP108 CMB77-14-1Y-1B-2Y-2B-1Y-0B			2354.0	108.8	120.0	15.0	31.2	0.0	71.5
186	BAL16-MANKER X CHOYA/11012 2-5106 CMB77-26-1Y-1B-1Y-2B-1Y-0B			3598.3	115.7	121.3	31.8	34.6	40.0	72.2
187	H251-CHOYA CMB74A-1097-4B-3Y-1B-1Y-1B-0Y			4995.3	106.4	118.2	36.0	34.6	0.0	79.3
188	BAL16-MANKER X CHOYA/11012 2-5106 CMB77-28-1Y-1B-3Y-1B-1Y-0B			3812.7	108.6	121.4	39.2	37.6	40.0	73.7
189	BDQC-GAS X 11012 2-5106 CMB77-59-2Y-1B-1Y-1B-1Y-0B			3361.7	105.1	121.7	45.0	32.5	60.0	78.8
190	BDQC-GAS X TRA-1033 CMB77-62-5Y-2B-1Y-1B-1Y-0B			4822.0	105.3	117.5	25.7	39.0	0.0	88.0
191	APM-HC1905 X ORE"S" CMB77-65-3Y-4B-3Y-1B-1Y-0B			3355.3	113.6	118.6	34.7	31.7	35.0	82.3
192	(A646-KRISTINA/APM-DWARF21 X FOR-IB65)11012 2-TERN CMB77-85-1Y-1B-1Y-1B-2Y-0B			2886.3	109.8	120.6	23.0	36.8	40.0	76.6
193	APM-DWARF11 1Y X MANKER-APM-5106 CMB77-138-14Y-1B-1Y-1B-1Y-0B			2981.7	110.3	122.8	14.0	15.4	0.0	64.2
194	BAH1M7-DL71 X CHOYA-GALT CMB77-183-1Y-2B-1Y-1B-1Y-0B			3898.0	107.1	118.7	35.8	34.6	0.0	72.5
195	BAH1M7-DL71 X CHOYA-GALT CMB77-183-5Y-1B-1Y-1B-1Y-0B			4524.7	106.0	119.5	33.8	42.2	60.0	77.5
196	DL71-STRAIN235 X APM-5106 CMB77-188-1Y-1B-1Y-1B-1Y-0B			5584.5	103.6	118.0	16.5	20.3	0.0	73.2
197	API-CM67 X DL71-MASWI-BON CMB77-190-24Y-1B-1Y-1B-2Y-0B			3559.5	106.3	119.1	32.0	52.3	40.0	76.7
198	MINN480-GVA X 11012 2-TERN CMB77-192-11Y-1B-1Y-2B-1Y-0B			3360.0	112.1	118.5	50.0	26.3	60.0	76.6
199	API-CM67 X HBCC+XVIII/SAH CMB77-242-11Y-1B-4Y-1B-1Y-0B			2504.0	104.0	116.1	44.2	22.0	40.0	75.3
200	ENSENADA			2990.3	98.8	116.1	55.0	18.5	0.0	77.8
201	69 B2-MONA X HOP1726 CMB77-266-6Y-1B-1Y-1B-1Y-0B			2270.0	104.3	121.5	33.0	34.8	40.0	69.8

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HEL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
174	39 0	33 3	22 0	10 0	420 0	14 3	4 3	3 8	2 4	2 9	6 0	3 2
175	16 5	26 2	22 0	5 0	388 0	0 0	2 7	1 9	2.2	4 5	6.0	4 4
176	33 5	30 0	33 0	10 0	328 0	0 0	4.9	2.7	2.6	3.0	6 0	4 0
177	39 0	-----	33 0	30 0	404 0	14 3	5 2	2 7	2.4	3 3	7.0	3.0
178	22.0	32 4	11 0	10 0	452 0	14.3	2 6	3 8	3.4	2 7	5.0	2 8
179	5 5	31 5	22.0	20 0	448 0	42 9	1.8	2.4	2.4	2 3	6.0	3.8
160	5 5	31 7	11.0	10 0	428 0	28 6	1.5	3.0	1.6	3 3	5.0	3 8
181	22 0	31 5	22 0	5 0	356 0	0 0	2.1	3.0	3.0	3.4	5.0	3.2
182	33 5	37 3	11.0	5 0	300 0	0 0	2.1	2.1	2.6	3 4	7 0	2 6
183	69 5	29 7	11 0	5 0	448.0	0 0	2 5	3.4	2.2	2 5	3 0	3.6
184	50 0	32 6	11 0	10 0	300 0	0 0	3.8	2 9	3.8	3.3	8 0	4 3
185	11 0	20 6	33.0	5 0	288 0	14.3	3 8	2.3	2 2	1.8	2 0	4.8
186	16 5	33 3	0 0	2 0	340 0	0 0	4.8	2 8	2.0	2 8	6.0	3 0
187	33 5	32 6	11 0	5 0	292 0	0 0	2 9	3.0	2.4	1.8	8 0	4 4
188	5 5	34 9	0 0	10 0	340.0	0 0	4.6	3.3	2.0	2 7	4 0	5 3
189	11.0	37 1	11 0	5 0	320 0	0 0	2 3	2.9	2.6	3 8	7 0	3 8
190	33 5	29 3	11 0	10 0	244 0	28 6	2 8	2.9	2 0	3.2	6.0	3.8
191	44 5	32 5	11 0	2.0	304 0	14 3	3 6	2.2	2.5	4 1	6.0	4 0
192	33 5	53 3	11.0	5 0	380 0	0 0	2.9	3 2	2.5	3 3	7 0	4 3
193	50 0	-----	22 0	5 0	372.0	14 3	4 3	1.9	1.8	2 9	8.0	5 0
194	28 0	29 5	11 0	10 0	460 0	14 3	3 6	2 3	1 4	2 7	7 0	5.5
195	39 0	28 8	11 0	5 0	388 0	28 6	3 6	2 4	1 8	2 2	6.0	4.0
196	39 0	29 0	11 0	3 0	312 0	28 6	2 8	2 9	1 8	2 8	8 0	4 4
197	87 5	33 2	11.0	10 0	388 0	0 0	4.7	4.1	2.0	2.0	5 0	5.0
198	75 0	-----	22 0	5.0	-----	0 0	3 7	3 0	1.8	2 0	7 0	4.8
199	40 5	29 8	0 0	10 0	208 0	0 0	2.6	2 4	2.0	2 8	7 0	3.6
200	64 0	39 4	11 0	30 0	188 0	28 6	2 8	2 9	2.4	2 0	6.0	3 0
201	16 5	25 8	11 0	20 0	440 0	14 3	3 3	2 5	1.4	3 3	8 0	3 3

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RI L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	(3)	(9)	(15)	(6)	(7)	(2)	(6)
202	69 B2-MONA X CI2228 CMB77-269-1Y-1B-2Y-1B-1Y-0B			2324.3	120.9	125.3	22.1	26.4	40.0	82.8
203	MANKER X API-CM67(PRO-TOL I X CER(2) -TOL I/5106) CMB77-359-2Y-1B-1Y-2B-1Y-0B			3097.7	118.3	120.7	62.8	20.9	0.0	74.7
204	BAH-M66 B5/BAL16-MANKER X CHOYA CMB77-410-5Y-1B-2Y-1B-1Y-0			3545.3	108.3	118.9	50.5	30.0	0.0	61.8
205	BCO MR X DS-APRO/APM-5106 CMB77-461-2Y-1B-1Y-1B-2Y-0B			2471.3	107.9	120.5	40.0	18.2	2.5	70.7
206	BCO MR X DS-APRO/APM-5106 CMB77-461-5Y-1B-1Y-1B-2Y-0B			2795.7	106.8	119.9	14.5	8.6	0.0	73.8
207	KRISTINA-CHOYA X 11016 2/B1 CMB77-472-6Y-4B-2Y-1B-1Y-0B			1126.5	111.6	118.8	18.0	29.6	40.0	80.0
208	APM-RL X MANKER/MAGWI-BON CMB77-506-7Y-1B-1Y-1B-1Y-0B			4489.3	108.5	118.1	45.0	16.8	20.0	83.2
209	DS-APRO 2B X KRISTINA/MARI-COHO CMB77-519-4Y-1B-2Y-1B-1Y-0B			2202.3	106.9	119.2	31.3	21.0	0.0	72.8
210	DWO1-API(3) X 5107/11016 2-CAL MR CMB77-535-8Y-1B-2Y-1B-1Y-0B			4141.3	117.6	122.1	9.7	15.0	0.0	61.5
211	BDGC-GAS(APM-1865 X 11012 2/API-CM67 X DS-APRO) CMB77-538-12Y-1B-1Y-2B-2Y-0B			5512.7	103.3	116.4	48.0	21.3	0.0	73.7
212	RM1508-11012 2 X BCO MR/CM67-CENTENO CMB77-714-1Y-2B-1Y-3B-1Y-0B			3854.7	104.4	120.2	29.7	15.2	60.0	75.0
213	APM-1865 X WEAH/EMIR-AGYPT X NACKTA CMB77-1022-8Y-2B-1Y-2B-1Y-0B			2793.3	121.3	122.4	7.2	16.7	60.0	74.3
214	APM-1865 X WEAH/EMIR-AGYPT X NACKTA CMB77-1022-8Y-2B-1Y-2B-3Y-0B			2660.7	119.3	122.6	4.6	17.3	0.0	77.0
215	EMIR-GHABEI X CM67/NIGRATE CMB77-1029-4Y-1B-1Y-1B-1Y-0B			2767.3	112.4	120.8	7.7	15.3	0.0	80.0
216	WI2198/EMIR-AGYPT X NACTA CMB77-1030-2Y-1B-1Y-1B-1Y-0B			2926.3	110.0	121.3	15.3	32.8	0.0	79.5
217	API-CM67 X HBCO/XVIII/D P CMB77-1100-9Y-1B-1Y-1B-1Y-0B			2384.3	99.0	118.0	25.7	35.2	0.0	82.5
218	(6 P(6H) APRO X CAL MR/MARI-COHO) 11012 2-TERN CMB77-1233-7-1Y-1B-1Y-1B-1Y-0B			4157.3	103.9	121.1	26.0	17.9	40.0	92.0
219	CELAYA X MZG-9YA CMB76A-4-3Y-1B-1Y-1B-1Y-0B			3553.3	105.1	118.9	45.0	11.5	0.0	79.2
220	BCO MR-MZG X APM-5106 CMB76A-165-1Y-1B-2Y-2B-2Y-0B			3835.3	105.7	120.5	51.7	18.3	60.0	77.5
221	BCO MR-MZG X APM-5106 CMB76A-165-14Y-2B-1Y-2B-1Y-0B			3364.7	106.3	121.6	34.0	16.2	20.0	71.0
222	BCO MR-MZG X APM-5106 CMB76A-165-14Y-2B-1Y-2B-3Y-0B			3854.7	104.9	120.5	25.0	22.2	0.0	70.5
223	(MUSTS"/PORT-U-SASM1766 X BEN)BDGC- GAS X DN CMB77-1305-A-2Y-1B-3Y-1B-1Y-0B			3139.0	106.1	121.7	27.3	40.3	40.0	63.5
224	CELAYA"S"-5106 X CELAYA-CI3909 2(MAN ER X API-CM67-114100) CMB77-1341-6-3Y-1B-1Y-1B-1Y-0B			3556.3	107.6	121.0	58.3	35.8	120.0	73.3
225	CELAYA"S"-5106 X CELAYA-CI3909 2(MAN ER X API-CM67-114100) CMB77-1341-6-3Y-1B-1Y-2B-3Y-0B			1875.7	120.0	123.2	53.3	34.0	60.0	67.0
226	11012 2-MZG X BDGC-GAS(BAL16-MZG/ M67 14 X DS-APRO)IRIS) CMB77-1450-[illegible]-3Y-2B-2Y-1B-1Y-0B			3740.3	105.9	122.5	23.1	25.5	0.0	68.0
227	(CM67-U-SASM1766 X PRO-CM67((BRA- TRA X CER(2)-AVT(2)-RI X TOL I-BZ) AVT-CHO)/CHOYA X DS-APRO-DL70-DZ02 27 CMB77-1476-[illegible]-1Y-2B-1Y-1B-1Y-0B			3429.7	95.8	117.0	23.6	23.7	0.0	68.8

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HFL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
202	5.5	40.1	11.0	0.0	480.0	0.0	3.0	3.5	2.3	3.1	5.0	3.5
203	28.0	41.8	11.0	2.0	220.0	0.0	2.9	2.5	2.3	3.5	4.0	4.0
204	58.5	33.3	22.0	5.0	536.0	0.0	3.2	2.8	2.3	3.7	5.0	4.0
205	82.0	39.8	33.0	5.0	156.0	0.0	3.5	2.7	2.2	2.7	7.0	5.0
206	44.5	43.3	22.0	5.0	316.0	28.6	3.8	3.0	4.8	3.6	8.0	3.8
207	58.5	-----	11.0	5.0	-----	0.0	3.4	2.8	3.5	3.8	8.0	4.0
208	16.5	32.8	22.0	30.0	432.0	42.9	3.5	3.6	2.4	2.6	7.0	4.2
209	22.0	24.7	11.0	20.0	688.0	0.0	4.0	2.6	4.0	4.6	8.0	3.0
210	22.0	32.0	11.0	5.0	496.0	14.3	2.0	2.5	2.0	3.7	7.0	4.8
211	44.5	27.3	11.0	10.0	436.0	0.0	3.5	3.1	2.4	4.8	8.0	3.2
212	44.5	30.0	11.0	20.0	580.0	0.0	3.4	3.0	1.8	2.1	8.0	4.0
213	16.5	27.1	11.0	5.0	444.0	0.0	2.6	2.7	2.8	1.8	7.0	4.3
214	11.0	46.0	0.0	2.0	596.0	0.0	2.8	2.1	2.0	3.1	6.0	4.6
215	44.5	42.2	11.0	5.0	332.0	14.3	1.3	2.6	2.0	3.0	8.0	4.0
216	22.0	38.6	22.0	5.0	628.0	0.0	0.6	2.6	2.0	3.3	8.0	5.0
217	62.5	34.5	33.0	20.0	376.0	0.0	3.8	1.8	2.4	2.3	8.0	4.0
218	44.5	30.8	11.0	10.0	256.0	28.6	2.7	3.8	2.6	1.8	8.0	3.4
219	22.0	37.9	11.0	5.0	596.0	14.3	2.1	2.6	2.2	1.7	8.0	4.8
220	39.0	31.3	11.0	5.0	404.0	0.0	5.1	2.4	2.2	2.2	8.0	5.4
221	33.5	25.8	22.0	5.0	320.0	0.0	4.4	2.5	2.4	1.6	8.0	5.4
222	33.5	30.5	22.0	20.0	292.0	0.0	4.6	3.8	3.6	3.0	7.0	4.4
223	50.0	32.8	11.0	20.0	588.0	0.0	4.5	3.0	4.6	2.9	8.0	4.0
224	28.0	31.7	11.0	10.0	380.0	0.0	4.0	2.8	2.6	2.8	7.0	4.0
225	23.0	33.3	11.0	5.0	240.0	0.0	3.3	2.9	2.0	2.2	3.0	4.3
226	22.0	40.2	22.0	5.0	400.0	28.6	2.2	2.4	1.6	2.7	4.0	5.8
227	29.0	38.4	11.0	10.0	540.0	28.6	2.5	3.7	2.2	2.7	6.0	4.2

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT L	LEAF RUST	STEM RUST	PLNT HT
			NOBS.	(3)	(9)	(15)	(6)	(7)	(2)	(6)
228	S P(6H)-APRO X CAL MR/MARI-COHO CMB76A-123-2H-1Y-1B-1Y-1B-0Y			2330.3	79.5	111.2	30.3	26.0	0.0	57.8
229	B1 X MARI-COHO CMB76A-266-4H-4Y-1B-2Y-2B-0Y			3255.0	81.0	106.2	24.8	17.0	0.0	55.3
230	M69 69-HJA C4715(CFR(2) KI X PRO-TOL I(2)/A554-TRA) CMB76A-524-1H-2Y-1B-3Y-1B-0Y			2080.3	73.8	107.2	61.3	15.0	0.0	47.7
231	M64 69-M65 211 X APM-RL/API-CM67 CMB76A-579-5H-1Y-1B-3Y-2B-0Y			2592.7	74.3	108.6	60.7	18.0	0.0	54.0
232	HJA A33-ABYIN X S P(2H)-EMIR CMB76A-1102-E-1B-1Y-1B-4Y-2B-0Y			2120.7	69.8	110.1	22.0	26.1	0.0	59.2
233	HJA A33-UNION(CAL MR X DS-APRO/GAS) CMB76A-1345-C-3B-1Y-1B-1Y-2B-0Y			3095.3	77.0	111.5	24.0	16.2	0.0	64.2
234	ORE"S"-BEN(API CM67 X M2G/APM-IB65) CMB75A-1359-D-1B-1Y-1B-1Y-1B-0Y			3583.3	78.9	112.1	44.5	25.4	0.0	67.0
235	M69 69-70 22435 X CAM/M66 B5-RM150B 81 CMB76A-1376-C-3B-1Y-1B-1Y-1B-0Y			3536.7	87.7	115.3	41.6	28.3	0.0	63.8
236	CELAYA X CM67-MONA(HJA C4715 X DULI-M64 69/DS APRO) CMB76A-1419-A-1B-1Y-1B-3Y-1B-0Y			2796.0	71.0	112.1	52.2	16.6	0.0	49.7
237	MAN-HUIZ X M69 69/APM-RL X B272 CMB76A-1419-A-1B-1Y-1B-1Y-1B-0Y			2774.7	74.3	110.2	48.5	22.1	0.0	59.7
238	MARI-COHO X DC751 CMB76-136-4Y-1B-1Y-1B-1Y-0B			2556.3	76.6	110.6	42.8	21.8	0.0	63.5
239	MONA-DC751 CMB76-144-4Y-1B-1Y-1B-1Y-0B			4408.0	77.8	109.4	40.7	40.1	0.0	69.0
240	70 22423-81 CMB76-166-13Y-2B-3Y-1B-4Y-0B			4360.0	84.5	113.1	32.3	35.2	0.0	74.5
241	MONA-EMIR X BCO MR-GVA CMB76-522-1Y-2B-8Y-1B-6Y-0B			2068.7	76.0	108.5	43.2	1.0	0.0	44.0
242	(M66 91-M65 94 X 70 22109/APM-IB65) RM150B CMB76-570-1Y-1B-1Y-1B-1Y-0B			2056.0	74.3	108.2	55.2	25.0	0.0	51.8
243	M64 69-M65 211 X APM-RL/API-CM67 CMB76-579-5Y-1B-1Y-1B-5Y-0B			2620.7	73.3	109.4	47.5	25.0	0.0	62.5
244	MARI-COHO/V14 65 X 5673-5106N CMB76-614-3Y-1B-1Y-1B-1Y-0B			1859.3	77.0	97.8	46.2	26.5	0.0	52.8
245	API-CM67 X CM67 GVA/MAT HELM1858-HJA C4715 CMB76-939-[illegible]-1Y-1B-1Y-1B-2Y-0B			2788.0	73.3	106.7	49.0	23.3	0.0	53.2
246	S P(6H)-APRO X CAL MR ORE"S" CMB77-197-[illegible]-1B-1Y-1B-1Y-0B			3176.7	76.3	105.8	49.5	33.3	0.0	56.2
247	S P(6H)-APRO X CAL MR/69 B2 X DS-APRO CMB77-214-4Y-1B-1Y-2B-1Y-0B			2187.7	74.5	108.1	55.8	40.0	0.0	62.8
248	11012 2/MONA EMIR X GVA CMB77-247-9Y-1B-1Y-1B-1Y-0B			2321.0	79.3	107.3	50.7	22.5	0.0	62.3
249	69 B2 MONA X EMIR CMB77-264-8Y-1B-1Y-1B-1Y-0B			4376.3	77.0	110.1	50.8	20.0	0.0	61.8
250	69 B2-MONA X NACTA CMB77-267-5Y-1B-1Y-1B-1Y-0B			3433.7	77.3	109.8	49.3	24.0	0.0	60.3
251	69 B2-MONA X NACTA CMB77-267-5Y-1B-1Y-1B-3Y-0B			3092.0	78.8	111.0	54.4	25.0	0.0	59.7
252	MONA-U ALB 540 X NACTA CMB77-276-19Y-1B-1Y-1B-3Y-0B			3142.3	80.3	110.9	49.3	40.0	0.0	58.0
253	MONA-EMIR X GVA NOPAL CMB77-282-3Y-1B-1Y-1B-2Y-0B			2534.7	77.1	107.7	56.0	30.0	0.0	47.8
254	MARI-COHO X NACTA CMB77-287-1Y-1B-2Y-1B-1Y-0B			3881.7	76.1	107.3	41.0	25.0	0.0	54.8

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HLS 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
228	50 0	34 8	22 0	10 0	572 0	0 0	3 3	2 7	3 8	2 5	7 0	3 0
229	87 5	37 2	22 0	20 0	312 0	14 3	4 3	1.9	1 8	3 0	7 0	4 4
230	5.5	45 2	22 0	30 0	276 0	14 3	6 2	2 4	3.0	5 3	4 0	3 0
231	22.0	40 2	11.0	40 0	672.0	0.0	4.9	1.7	1.3	6 3	5.0	3.0
232	16 5	47 5	22 0	60.0	27[illegible] 0	0 0	3.0	3.1	2.6	2.8	7 0	3.3
233	44 5	33 2	22.0	60 0	288 0	0 0	3.5	2.8	1.5	2 2	7.0	2.4
234	87.5	48 2	22 0	10 0	516 0	0 0	3.6	2.5	1.5	2.0	5 0	3.3
235	78 0	37 6	11 0	5 0	372 0	0 0	4.6	3 9	2 4	4 2	8.0	3 3
236	5 5	36 4	33 0	30 0	400 0	0 0	5.6	2.7	2.5	4.4	5.0	3.0
237	87 5	47 2	11.0	30 0	332 0	0 0	4.9	1 9	1.4	4.4	6 0	2.8
238	87 5	38 1	22 0	20 0	336.0	0 0	4.5	1.6	1.0	5.0	5.0	3.0
239	50 0	44 8	33.0	60 0	568 0	0 0	2.3	2.1	3.2	4.5	6.0	3.0
240	94.5	30 2	11 0	50 0	252 0	0.0	3.4	3.3	2.0	3.8	6.0	3.0
241	5 5	40 1	22 0	40 0	272 0	14.3	5.4	2.4	1.3	6.3	6.0	3.5
242	5 5	36 8	22.0	50 0	412.0	0 0	5.1	2.0	0.8	6.0	7.0	2.8
243	69.5	44.7	22 0	50.0	288.0	0 0	5.2	1.7	0.8	4.2	5.0	2.5
244	5 5	43 8	22 0	10 0	392 0	0 0	4 4	1.7	2 0	3 0	6.0	3 0
245	0 0	33 0	33 0	20 0	340 0	0 0	4.3	1.4	1.0	5.0	5 0	3 0
246	16 5	33 7	22 0	40 0	472 0	0 0	6 0	2.9	2.3	6 8	4 0	3 0
247	16 5	41 0	22 0	60 0	300 0	28 6	4.5	3 4	3.3	4.4	4 0	3 5
248	5.5	44 7	33 0	10 0	532 0	0 0	3 7	1.7	1.8	6 6	3 0	5.8
249	54 0	45 0	33 0	50 0	484.0	14 3	3 6	2 4	0.8	6 3	[illegible] 0	2 5
250	65.5	44 9	22.0	20 0	448 0	0.0	4.3	1.9	0.8	4 0	5 0	2.5
251	43 0	-----	22.0	30 0	552.0	0.0	3.4	3.1	0 5	5 7	5 0	3 8
252	34 5	49 2	22.0	30.0	404.0	0 0	3.0	3 7	2.3	3.0	7 0	3 5
253	62 5	40 1	33 0	40.0	548 0	0 0	3 3	2 0	0.8	4.7	8 0	4 8
254	44 5	39 4	11 0	30 0	624 0	0 0	3 2	2.6	1.3	3 0	6 0	4 3

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RI L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	(3)	(9)	(15)	(6)	(7)	(2)	(6)
255	MARI-COHO X ARAMIR CMB77-238-2Y-1B-1Y-1B-1Y-0B			4166.7	77.8	110.0	38.0	10.1	0.0	57.5
256	MARI-COHO X ARAMIR CMB77-289-7Y-2B-1Y-1B-1Y-0B			3548.0	75.6	109.6	36.4	10.2	0.0	54.3
257	MONA-GATEWAY63(AS46-KRISTINA/APM-DWARF21 X POR-1865) CMB77-297-2Y-1B-1Y-1B-1Y-0B			3233.0	76.8	110.6	46.8	19.3	0.0	58.3
258	MONA-GATEWAY63 X B1 CMB77-302-7Y-1B-1Y-2B-1Y-0B			3864.7	79.1	111.7	39.8	34.7	0.0	62.2
259	MZG-BEN X CHZO"S" CMB77-346-5Y-1B-1Y-1B-1Y-0B			3152.7	81.6	110.3	58.3	50.0	0.0	52.7
260	MZG-BEN/ER X DULI-M64.69 CMB77-349-1Y-1B-1Y-2B-1Y-0B			3009.7	92.4	112.0	57.5	40.0	0.0	61.5
261	MZG-BEN/ER X DULI-M64.69 CMB77-349-1Y-1B-1Y-2B-2Y-0B			2747.0	83.9	109.9	54.2	20.2	0.0	62.3
262	MZG-BEN/ER X DULI-M64.69 CMB77-349-1Y-1B-1Y-2B-4Y-0B			2784.7	83.1	110.8	58.3	26.8	0.0	62.3
263	OC640-MARI/CR115-POR X KRISTINA CMB77-376-1Y-1B-2Y-2B-2Y-5B			2093.0	74.8	109.8	51.0	10.0	0.0	60.2
264	MONA X MZG-DL71 CMB77-383-5Y-1B-2Y-1B-3Y-0B			3736.0	78.9	109.9	61.7	13.7	0.0	57.3
265	S P(6H)-APRO X CAL MR/CHZO"S" CMB77-405-1Y-1B-1Y-1B-1Y-0B			2112.7	71.3	109.5	55.8	28.7	0.0	54.7
266	MARI-COHO/APM-1869 X WEEAH CMB77-496-6Y-2B-2Y-1B-1Y-0B			3911.7	73.9	108.3	54.2	11.7	0.0	59.7
267	MANKER X APM-RL/MUS"S" CMB77-564-1Y-1B-2Y-1B-1Y-0B			3627.3	75.1	107.8	50.8	34.0	0.0	56.8
268	MANKER X APM-RL/CAL MR X DS-APRO CMB77-566-4Y-1B-2Y-1B-1Y-0B			1893.3	76.0	110.2	53.3	26.9	0.0	51.3
269	APM-RL X J00856/11012.2-CM67 CMB77-569-2Y-1B-2Y-1B-1Y-0B			2403.7	77.4	112.4	54.0	43.5	0.0	46.7
270	APM-RL X J00856/CALT-11012.2 CMB77-577-6Y-1B-1Y-3B-1Y-0B			3529.3	75.8	111.9	55.8	45.0	0.0	49.3
271	APM-RL X J00856/CHZO"S" CMB77-580-1Y-2B-1Y-2B-1Y-0B			2760.0	80.0	112.7	58.3	50.0	0.0	47.0
272	APM-RL X J00856/PRO-11012.2 CMB77-586-3Y-1B-1Y-2B-1Y-0B			3114.7	78.0	111.6	55.0	50.0	0.0	48.8
273	MONA-BEN-APT CM67 X BUS CMB77-594-1Y-1B-1Y-1B-1Y-0B			3823.7	74.9	114.0	51.7	40.0	0.0	60.7
274	SM4142-MASURKA CMB77-873-2Y-1B-2Y-1B-1Y-0B			2728.0	76.4	108.5	37.0	20.0	0.0	60.3
275	SM4142-MASURKA CMB77-873-2Y-1B-2Y-1B-1Y-0B			2334.3	76.8	108.4	32.8	30.0	0.0	64.3
276	SM4142-NACTA CMB77-875-1Y-2B-1Y-1B-1Y-0B			3003.0	80.3	109.5	35.7	60.0	0.0	72.2
277	B1 X MARI-COHO CMB76A-266-2H-1Y-1B-1Y-1B-0Y			3558.7	97.9	116.1	44.2	55.0	0.0	89.0
278	MZG-BEN X GVA-09 CMB76A-291-1H-1Y-1B-1Y-1B-0Y			2447.0	85.3	111.2	48.3	40.0	0.0	75.2
279	MZG-BEN X H272 CMB76A-293-1H-1Y-1B-1Y-1B-0Y			1988.0	79.1	108.3	45.0	30.0	0.0	68.8
280	HJA ADT-ADTIN X S P(2H)-EMIR CMB76A-1102-E-1B-1Y-1B-5Y-1B-0Y			2744.7	74.3	108.4	47.2	36.7	0.0	60.2
281	MAN-HCIT X P66.49-APM-RL X H272 CMB76A-1419-A-1B-1Y-2B-1Y-1B-0Y			2407.3	74.5	107.5	34.8	34.7	0.0	67.7
282	B1-20A7 CMB76A-[illegible]-2B-1Y-3B-1Y-2B-0Y			2544.0	85.3	111.2	42.0	34.9	0.0	61.3

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HI L S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
255	76.5	36.5	11.0	20.0	560.0	0.0	3.3	1.7	0.5	4.2	5.0	4.8
256	40.5	44.3	11.0	30.0	612.0	28.6	2.9	2.6	0.8	3.7	6.0	4.3
257	64.0	53.4	22.0	30.0	480.0	0.0	1.6	2.0	1.0	3.3	4.0	3.3
258	57.0	37.5	11.0	20.0	348.0	0.0	3.1	2.7	1.5	3.8	4.0	4.0
259	11.0	31.2	22.0	10.0	396.0	14.3	4.1	1.6	1.0	4.2	4.0	5.5
260	64.0	29.8	22.0	30.0	344.0	14.3	4.3	1.9	0.5	4.4	7.0	3.8
261	69.5	36.0	22.0	60.0	412.0	0.0	4.3	1.4	0.8	4.4	7.0	3.3
262	71.3	40.1	11.0	50.0	596.0	0.0	3.9	2.0	0.8	4.2	7.0	4.3
263	34.0	-----	22.0	5.0	824.0	0.0	4.3	2.6	0.0	5.0	5.0	3.8
264	31.3	33.1	11.0	30.0	428.0	0.0	1.3	2.7	1.8	4.6	6.0	2.8
265	23.7	42.5	22.0	40.0	564.0	0.0	3.8	3.2	3.0	4.0	8.0	4.3
266	39.3	41.4	22.0	40.0	520.0	14.3	3.9	3.0	1.0	3.7	8.0	3.5
267	18.0	40.4	22.0	30.0	364.0	14.3	3.2	3.2	2.0	4.4	7.0	4.0
268	10.7	41.7	22.0	30.0	560.0	0.0	2.4	2.6	3.0	5.2	8.0	3.8
269	11.0	33.6	22.0	50.0	472.0	14.3	3.4	2.9	1.3	5.4	6.0	4.3
270	46.0	34.7	22.0	40.0	520.0	14.3	3.1	2.3	2.8	5.2	7.0	5.3
271	7.3	36.4	11.0	20.0	404.0	0.0	3.8	1.0	2.0	5.3	4.0	4.8
272	35.3	47.6	11.0	20.0	524.0	0.0	4.9	1.1	2.3	5.0	3.0	3.0
273	51.3	45.2	22.0	40.0	480.0	14.3	4.2	2.1	2.3	4.2	6.0	3.5
274	68.7	43.3	22.0	10.0	468.0	0.0	2.1	2.4	1.5	3.3	5.0	3.8
275	42.3	34.6	22.0	10.0	504.0	0.0	1.9	1.4	0.8	4.3	6.0	3.5
276	24.7	48.5	0.0	30.0	484.0	0.0	4.2	1.6	1.4	3.7	5.0	3.5
277	29.7	32.9	11.0	40.0	328.0	14.3	3.8	2.4	2.0	6.2	7.0	4.5
278	38.3	46.5	11.0	5.0	404.0	14.3	4.1	2.1	2.2	4.2	7.0	4.3
279	40.0	40.1	22.0	30.0	504.0	0.0	3.8	3.3	1.4	4.2	7.0	4.3
280	29.0	30.5	22.0	40.0	484.0	0.0	4.4	3.3	3.3	3.5	8.0	4.0
281	35.0	48.5	11.0	40.0	396.0	0.0	4.1	2.0	0.8	3.0	6.0	3.5
282	28.7	38.6	33.0	30.0	496.0	0.0	2.9	2.8	2.5	4.0	8.0	4.0

Table 2. (cont'd)

VTY NO.	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RI L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	(3)	(9)	(15)	(6)	(7)	(2)	(6)
283	69 B2-MONA X MARIS DINGO CMB77-265-5Y-1B-3Y-1B-1Y-0B			2488.0	80.0	111.6	53.2	34.7	0.0	67.3
284	69 B2-MONA X MARIS DINGO CMB77-269-5Y-1B-5Y-1B-1Y-0B			2334.7	79.9	111.1	62.0	31.3	0.0	69.3
285	MONA-U ALB540 X EMIR CMB77-272-1Y-2B-1Y-1B-2Y-0B			3468.7	81.1	112.3	40.2	36.3	0.0	67.3
286	MONA-U ALB540 X ARAMIR CMB77-277-1Y-1B-1Y-1B-1Y-0B			3883.3	85.3	111.5	56.0	32.0	0.0	70.0
287	HJA A33-ID601810/11012 2-STEUDELLI CMB76A-1104-A-5B-2Y-1B-1Y-1B-0Y			2107.3	80.9	110.1	53.2	42.5	0.0	62.7
288	APM-RL X BCG MR-GVA CME75-3B-16Y-1M-1Y-2B-1Y-0B			2466.0	75.9	110.8	56.0	30.0	0.0	57.5
289	MONA-GATEWAY63 X B1 CMB77-302-7Y-1B-5Y-1B-3Y-0B			2461.0	80.0	109.5	62.0	46.7	0.0	67.5
290	MZQ-BEN/ER X OLLI-M64 69 CMB77-349-1Y-1B-1Y-2B-3Y-0B			2703.7	85.6	112.2	66.0	36.4	0.0	61.2
291	MZQ-BEN/ER X OLLI-M64 69 CMB77-349-3Y-1B-1Y-1B-1Y-0B			1799.0	79.8	109.3	54.0	53.3	0.0	63.2
292	MZQ-BEN X MARI-COHO CMB77-35[illegible]-5Y-1B-2Y-1B-1Y-0B			2857.0	77.4	105.7	53.0	40.0	0.0	68.5
293	MANKER X APM-RL(15 P(2H) X CP115-POR/API-CM67)51063 CMB77-557-16Y-1B-1Y-1B-1Y-0B			3779.7	77.8	109.5	59.0	36.7	0.0	64.5
294	MANKER X APM-RL MOS"S" CMB77-564-1Y-1B-1Y-2B-1Y-0B			3488.7	78.3	108.0	57.0	46.7	0.0	51.0
295	SM4142-EMIR CMB77-871-14Y-1B-1Y-1B-1Y-0B			2674.7	77.4	108.9	36.8	28.7	0.0	62.7
296	SM4142-NACTA CMB77-875-14Y-1B-1Y-1B-1Y-0B			2252.7	77.1	111.4	44.8	36.0	0.0	63.8
297	F3 BULK HIP 76A-2-1B-1Y-1B-1Y-1B-1Y-0B			2829.0	77.6	110.0	54.0	45.0	0.0	60.5
298	NACTA-HJA A33 CMB76A-261-1B-1Y-1B-1Y-1B-0Y			1340.0	84.4	102.7	50.0	41.7	0.0	56.6
299	M69 69 X APM-RL/NACKTA CMB76A-5[illegible]-2H-1Y-1B-1Y-1B-0Y			1916.5	86.0	111.7	26.7	45.0	0.0	59.0
300	BUSCELL			5492.7	97.4	121.0	10.6	19.7	0.0	66.5
301	ER-APM X F[illegible]BLA/MONA-BEN X NACTA CMB76A-131P-C-13-1Y-1B-1Y-1B-0Y			1372.7	76.8	115.6	32.5	33.7	0.0	51.6
302	(ER X OLLI-M64 69/EMIR-NACKTA X JAPA 1500)MONA-EMIR X GAS CMB76A-1323-A-3B-1Y-1B-1Y-1B-0Y			2406.0	74.3	113.6	50.0	37.3	0.0	60.0
303	(ER X OLLI-M64 69(44%)/EMIR-STANKA F 4367 X NACTA)(CP115-POR X S P(6H)-GAS CMB76A-1[illegible]-2B-1Y-1B-1Y-1B-0Y			2078.0	78.2	116.4	48.3	32.0	0.0	55.2
304	M65 167-M66 69 1 X MONA APM-IB65 X GVA CMB75A-185-4B-1Y-1B-1Y-2B-0Y			2357.7	77.2	117.3	41.0	42.7	0.0	51.4
305	M65 167-M66 69 1 X MONA APM-IB65 X GVA CMB75A-185-4B-3Y-1B-2Y-1B-0Y			2324.3	92.0	121.0	41.5	46.5	0.0	62.3
306	M65 167-M66 69 1 X MONA/APM-IP65 X GVA CMB75A-185-7B-3Y-2B-2Y-1B-0Y			3273.3	87.2	116.5	41.0	31.5	0.0	78.5
307	APM-RL X GRE"S" CMB76-106-1B-1B-2Y-1B-1Y-0B			2919.0	67.5	110.5	46.3	29.8	0.0	54.2
308	MONA X BCG MR-GVA CMB76-140-3Y-2B-1Y-1B-1Y-0B			1738.0	76.0	116.1	53.3	31.0	0.0	58.0
309	MONA-EMIR X BCG MR-GVA CMB76-522-1Y-2B-8Y-1B-5Y-0B			2420.3	78.8	116.0	56.7	24.5	0.0	52.6

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HEL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
283	37 3	43 1	11 0	20 0	408 0	0 0	2 8	1 7	1 0	4 0	7 0	3 3
284	22 0	40 7	11 0	20 0	384 0	14 3	3 9	1 4	1 3	5 3	4 0	3.3
285	26 0	47 1	22 0	20 0	304 0	0 0	3 7	2 3	1 3	6 0	3 0	4.0
286	14 0	49 4	22 0	20 0	400 0	0 0	2 0	2.0	1.0	6 2	3 0	3.3
287	22 3	39.0	33 0	20 0	384 0	0 0	1 9	1.4	3.0	5 8	4.0	4 3
288	0 0	43 3	11 0	30 0	428 0	14 3	4.3	1.7	2.0	5 7	6.0	3.3
289	22 3	33 2	11 0	30 0	340 0	0 0	3 8	1.4	1.3	5 2	6 0	4 8
290	10 3	31 5	22 0	30 0	340 0	14 3	5.0	1.4	1.8	4.0	6 0	4.8
291	35 7	31 5	22 0	40 0	268 0	0 0	5.3	1.1	2 0	4 6	7 0	4 5
292	50 0	22 9	22.0	30 0	225.0	0.0	4.9	1.8	1 0	5 0	7 0	4 5
293	50.0	34 3	33 0	40 0	192.0	14.3	4 8	1.0	0.8	3 8	5 0	4 8
294	11.0	35 6	22.0	30.0	444 0	0.0	4.0	1.9	1.5	5 6	4.0	3.8
295	33 5	38 1	11.0	20.0	380.0	14 3	2 4	1.4	0.8	5 5	5.0	4 0
296	28 0	55 8	11.0	30 0	412.0	0 0	3 8	1.7	1.0	5 0	6 0	2 8
297	28 0	42 1	11 0	40.0	444 0	0 0	4 4	2.1	2.5	5 0	6.0	3.5
298	22 0	34 7	-----	2 0	356 0	0.0	3 0	2.4	1.3	3 3	8 0	2.5
299	34 5	38 4	33 0	5 0	980 0	0 0	1.1	1 7	1.2	6 3	3 0	5.3
300	39 0	33 0	11 0	5 0	288 0	0 0	3 9	2.8	1.8	4.1	8.0	2.5
301	5 5	33 3	33 0	5 0	364 0	0 0	4 5	3 0	1.3	2 5	3 0	3 0
302	11 0	33 5	22 0	10 0	500 0	0 0	2 1	2.9	1.0	5 6	3 0	3 3
303	50 0	31 3	33 0	5 0	360 0	0.0	3.8	3.0	1.7	6 0	7 0	3.7
304	16 5	31 8	33 0	5 0	372.0	0.0	3.9	3 8	3.0	3 0	3.0	4.3
305	11 0	34 9	22.0	2.0	412.0	14.3	1.4	3.4	1 0	1.3	3 0	3 0
306	62 5	33 4	11.0	5 0	364.0	0.0	1.6	3.7	4.0	6 0	8.0	4.3
307	50 0	33 3	33 0	20 0	444.0	14.3	4 8	2.6	2.8	4.3	6 0	3.0
308	0 0	36 7	33 0	5 0	360.0	0.0	2.9	2.3	2.6	6.5	8.0	4 0
309	50 0	35 1	22 0	10.0	332.0	0 0	3.6	2 5	3.4	5 6	2 0	4 0

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	SIRP RI L	LEAF RUST	STEM RUST	PLNT HT
			NOBS:	(3)	(9)	(15)	(6)	(7)	(2)	(6)
310	M64 69-M65 211 X APM-RL/API-CM67 CMB76-579-17Y-1B-5Y-2B-9Y-0B			2349.7	69.6	111.1	42.0	44.5	0.0	51.4
311	ER X OLLI-M64 69/TETRA KREUS 69 CMB76-596-1Y-1B-1Y-1B-1Y-0B			1730.3	70.7	112.1	42.0	25.0	0.0	43.0
312	ER X OLLI-M64 69(4456/EMIR-STANKA X F1 4367-NACKTA) CMB76-600-10Y-1B-1Y-1B-3Y-0B			2181.0	73.7	111.6	41.7	32.5	0.0	55.2
313	ER X OLLI-M64 69/SULTAN-NACKTA CMB76-601-1Y-1B-1Y-1B-1Y-0B			3143.0	72.5	113.4	40.0	36.0	0.0	51.2
314	MARI-COHO X SULTAN-NACKTA CMB76-613-12Y-3B-1Y-1B-2Y-0B			2503.0	75.3	113.2	41.7	16.8	0.0	54.8
315	MARI-COHO/M34 65 (5673-5106N CMB76-614-1Y-1B-1Y-1B-2Y-0B			2667.0	76.7	113.0	47.2	31.5	0.0	50.8
316	(M66 91-M65 94 X 70 22109/APM-IB65) CI3909-2 CMB77-251-4Y-2B-1Y-1B-1Y-0B			1959.7	73.0	113.6	50.0	30.0	0.0	52.2
317	69 82-MONA X HOB1726 CMB77-264-8Y-1B-1Y-2B-1Y-0B			1997.7	74.2	114.0	45.8	25.3	0.0	48.4
318	69 82-MONA X NACTA CMB77-267-12Y-1B-3Y-1B-1Y-0B			2146.3	74.2	115.1	54.0	27.5	0.0	47.4
319	69 82-MONA X CI2228 CMB77-269-1Y-1B-2Y-1B-1Y-0B			1531.0	78.8	115.2	51.7	32.0	0.0	57.6
320	69 82-MONA X CI12010 CMB77-270-1Y-1B-1Y-1B-1Y-0B			2054.3	78.0	115.2	60.0	49.5	0.0	44.8
321	MONA-EMIR X GVA/NOPAL CMB77-282-1Y-1B-3Y-2B-1Y-0B			3082.3	79.4	114.7	50.2	26.8	0.0	54.0
322	MONA-EMIR X GVA/APM-HC1905 CMB77-284-6Y-1B-1Y-1B-1Y-0B			3091.7	82.2	121.9	34.5	21.3	0.0	45.5
323	MARI-COHO X NACTA CMB77-287-10Y-1B-1Y-1B-2Y-0B			2338.7	81.0	115.1	50.2	36.7	0.0	62.0
324	(M66 91-M65 94 X 70 22109/APM-IB65) CI3909-2 CMB77-291-7Y-2B-2Y-2B-1Y-0B			2632.0	75.3	112.4	49.2	36.3	0.0	53.6
325	MONA-EMIR X GVA HULLESS-CO CMB77-260-1Y-1B-1Y-1B-1Y-0B			2431.0	78.2	113.5	53.3	30.0	0.0	57.8
326	MONA-EMIR X GVA NOPAL CMB77-282-1Y-1B-1Y-1B-1Y-0B			1499.7	76.0	114.5	37.0	35.0	0.0	57.5
327	MARI-COHO X NACTA CMB77-287-12Y-1B-1Y-1B-1Y-0B			3262.7	77.7	113.8	44.7	43.3	0.0	55.2
328	MONA-GATEWAY69 APM-IB65 X WECAN CMB77-295-6Y-1B-1Y-1B-1Y-0B			1655.0	73.2	113.2	52.5	36.7	0.0	54.0
329	APM-RL(M66 69-1 M65 94 X 70 22109/ APM-IB65) CMB77-305-2Y-1B-1Y-1B-1Y-0B			1711.0	78.8	112.7	61.7	35.0	0.0	56.2
330	MARI-COHO/APM-IB65 X WECAN CMB77-494-10Y-1B-2Y-1B-2Y-0B			2654.0	76.5	111.8	50.0	34.0	0.0	52.2
331	APM-RL X J00B5A-M67 1B-M14 X 5106 CMB77-572-4Y-1B-1Y-1B-1Y-0B			1345.3	77.3	110.7	51.7	33.3	0.0	52.2
332	ER X OLLI-M64 69/DWG1-API(3) X 5107 CMB77-589-1Y-2B-1Y-1B-1Y-0B			1712.7	77.8	109.3	49.2	56.7	0.0	49.0
333	ER X OLLI-M64 69/DWG1-API(3) X 5107 CMB77-589-2Y-1B-2Y-2B-1Y-0B			1932.7	80.3	112.2	53.3	60.0	0.0	48.2
334	BUSTER(PDR-U SA-K1766 X BCN/BDGC-QAS X D CN) CMB77-1105-4Y-2B-2Y-1B-1Y-0B			3466.3	77.6	114.3	37.0	42.8	0.0	67.6
335	(MAGNIF107/APM-IB65 X WECAN)MARIS DI GO-70 22423 CMB77-1384-6Y-1B-1Y-2B-1Y-0B			3317.7	79.8	112.8	41.0	33.3	0.0	59.5
336	ORE'S" X API-CM67/MARI-COHO X MAN CMB76A-1159-1Y-1B-3Y-1B-3Y-2B-0Y			1315.7	78.4	113.8	42.5	51.3	0.0	55.0

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK + MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HEL S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
310	50 0	44 1	22 0	5 0	548 0	0 0	3 0	1 5	3 8	4 8	7 0	4 5
311	62 5	41 5	22 0	5 0	536 0	0 0	3.3	1 5	2 3	4 6	5 0	3 7
312	33 5	39 2	11 0	2 0	460 0	0 0	3 9	2 6	1 3	4 3	6 0	4 0
313	46 0	44 1	11.0	5 0	468 0	0.0	3.1	2 5	1.7	4 8	7 0	4.3
314	5 5	33 0	22 0	5 0	412 0	14 3	2.1	2.4	1.7	4 3	8 0	4.3
315	5 5	34 0	11 0	10 0	404 0	14 3	1.9	2.3	1.5	3 3	7 0	4.5
316	50 0	40 8	22 0	20 0	480 0	0 0	5.4	2.4	1.5	4 8	6.0	3.8
317	22 0	41 3	22 0	20.0	352 0	0.0	3.7	1.9	2.3	4.3	6.0	4.0
318	40 5	40 0	22 0	5 0	124.0	0.0	3.7	2.4	1.3	3.8	8.0	2.8
319	28 0	42 2	11 0	5 0	104.0	0.0	2.6	2.0	0.7	3.3	8.0	4.0
320	44 5	33 5	22 0	2 0	264.0	0.0	1 6	3 0	1.7	3.3	8.0	3.7
321	22 0	36 1	33 0	2 0	444.0	14.3	1 6	1 8	0.3	5.8	6.0	5.3
322	22 0	34 7	11.0	0.0	372 0	14 3	3.0	3.0	0.7	1.7	8.0	3.7
323	33 5	35 8	33.0	2 0	316 0	0.0	2.4	2 5	0.3	3.2	8.0	3.7
324	46 0	32 6	22 0	30 0	156 0	0 0	4.2	3 6	1.5	4 4	8 0	4.0
325	57 0	35 6	22 0	2 0	524 0	0 0	1 8	2 7	0.7	6 2	8.0	3.7
326	39 0	48 5	22.0	0 0	308.0	0 0	1.6	1 8	0 8	5 0	8 0	3.7
327	46.0	30 8	22.0	5.0	392 0	0 0	3.0	1.9	0 4	3 8	8 0	3.3
328	39.0	39 5	33 0	5 0	512 0	0 0	4 3	2 4	0 4	3 7	8 0	2.0
329	50 0	43 0	22.0	10 0	68 0	14 3	5 9	3 5	1.0	5 4	8.0	3 7
330	62 5	38 4	22.0	2 0	200 0	0.0	4 0	3 0	0 8	5.0	8 0	3 7
331	50 0	33 5	22.0	10 0	156 0	0 0	3 4	2.6	2 4	5 0	8.0	3.8
332	11.0	39 8	22 0	15 0	316.0	14 3	4.7	2.0	1 6	3 3	7 0	3 5
333	11 0	32 9	22 0	5 0	532 0	14.3	5 6	2 2	0 3	4 8	4 0	4 7
334	89 0	44 6	22 0	30 0	96.0	42 9	4.1	2.4	1.0	2 8	7 0	4.5
335	39 0	38 4	33 0	5 0	256 0	0 0	1 9	1.6	2.0	3 3	7 0	4 0
336	5 5	32 9	33 0	5.0	336 0	0 0	3 3	1.8	1.0	5 4	5 0	4 7

Table 2. (cont'd)

VTY NO	VARIETY OR CROSS AND PEDIGREE	GRAIN	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP WT L	LEAF RUST	STEM RUST	PLNT HT
			NOBS	(3)	(9)	(15)	(6)	(7)	(2)	(6)
337	M65 167-M66 69 1 X MONA.APM-1865 X GVA CMB75A-185 4B-3Y 1B-1Y-1B-0Y			3015.3	91.8	114.1	37.1	58.0	0.0	60.0
338	M65 167-M66 69 1 X MONA/APM-1865 X GVA CMB75A-185-10B-2Y-1B-1Y-1B-0Y			2883.7	94.9	115.3	41.0	64.5	0.0	55.2
339	SD729-POR X CI8221 CMB75A-226-5B-1Y-2B-1Y-1B-0Y			1981.0	101.4	116.8	36.3	24.8	0.0	65.0
340	ER X OLLI 464 69(4456/EMIR-STANKA X F1 4367-NACKTA CMB76-600-10Y-1B-1Y-1B-2Y-0B			2892.7	78.7	112.9	30.7	60.0	0.0	55.4
341	ER X OLLI-M64 69/SULTAN-NACKTA CMB76-601-1Y-1B-1Y-1B-3Y-0B			3319.3	80.7	115.4	45.7	45.3	0.0	71.6
342	POR-U LESK1800 X NACTA CMB75-132-3Y-1B-1Y-2B-1Y-0B			1785.0	111.4	123.4	37.3	53.2	40.0	63.8
343	U S/SK1766-API X BCO MR-GVA CMB75-177-1Y-1B-1Y-1B-1Y-0B			3559.0	111.0	122.8	40.4	60.0	0.0	85.5
344	APM-1865/APM-ATHS X GVA CM375-74-1Y-1B-1Y-1B-1Y-0B			2916.7	118.7	121.0	35.5	51.4	80.0	73.3
345	APM-11012 2 X NEPAL CI593 CMB74-888-A-1Y-1B-1Y-1B-500Y-500B-0Y			4103.3	108.7	122.4	40.0	73.0	0.0	61.0
346	BAL16-MANKER X CHOYA/11012 2-5106 CMB77-2B-1Y-1B-1Y-2B-2Y-0B			4806.0	107.9	122.0	45.8	50.5	20.0	64.8
347	BAHTIM7-DL71 X CHOYA-GALT CMB77-183-1Y-2B-5Y-1B-1Y-0B			4967.3	98.1	113.8	44.3	61.0	0.0	67.2
348	BCO MR X DS APRO/APM-5102 CMB77-461-2Y-1B-1Y-1B-1Y-0B			5517.0	100.2	118.8	38.5	49.7	0.0	66.8

VTY	LODG %	1000 G W	FRST DMGE	PLNT DENS	EARS /M2	CHECK MARK	POW M 0-9	NET B 0-9	SPT B 0-9	SCLD 0-9	HI L S 0-9	BYDV 0-9
	(3)	(1)	(1)	(1)	(1)	(7)	(10)	(9)	(6)	(7)	(1)	(5)
337	33 5	47 3	44 0	2 0	504 0	0 0	1 4	1.2	0 8	5 0	6 0	3 0
338	47 0	41 4	22 0	5 0	500 0	0 0	2.1	1.8	1 3	4 3	7 0	3.3
339	59 5	33 6	22.0	5 0	264 0	0 0	4 2	2 3	1.0	5 2	8 0	4 3
340	22 0	36 8	22 0	5.0	432.0	0 0	4 3	2 4	0 6	2 8	8 0	3.8
341	40 5	46 9	22.0	5 0	274 0	0 0	2 3	2.7	1 3	5.2	8 0	4.0
342	28 0	29 7	33 0	2.0	180 0	0 0	1.8	2.6	4.0	5.0	8.0	4 0
343	72 0	28 0	11.0	0.0	400 0	28 6	3 1	2.3	1.2	5.5	7.0	4 0
344	33 5	26 2	22.0	2.0	280.0	0 0	2.0	3.0	1.0	4 0	5 0	5 3
345	22.0	36 3	0.0	5 0	304 0	28 6	3 1	2.0	2.0	3.3	8 0	3.8
346	11 0	39 0	0 0	5.0	264 0	0.0	5.6	2.0	1.8	4.3	5 0	3.3
347	100 0	35 0	22.0	20 0	444 0	28.6	3.1	1.9	1.4	4 3	8 0	4 3
348	100 0	23.3	33 0	5 0	572 0	0.0	3.3	2.0	2.8	5 5	8 0	5 0

Table 3. Top performance entries: Spot blotch

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
088	EUROPE	SPAIN	MADRID	68
163	SOUTH AMERICA	BRAZIL	SAO PAULO	68
500	ASIA	NEPAL	BHAIRAHWA	68

*VARIABLE IDENTIFICATIONS
68 SPT B 0-9

VTY NO	VARIETY OR CROSS ND PEDIGREE	LOCATIONS 088	163	500	SPT B 0-9 MEAN
					NOBS (3)
327	MARI-COHO X NACKTA CMB77-287-10Y-1B-1Y-1B-1Y-0B	0	1	0	0.3
328	MONA-GATEWAY63/APM-1865 X WEEAH CMB77-295-6Y-1B-1Y-1B-1Y-0B	0	1	0	0.3
340	ER X OLLI M64 69(4456/EMIR-STANKA X F1 4367 NACKTA CMB76-600-10Y-1B-1Y-1B-2Y-0B	0	2	0	0.6
281	MAN-HUIZ X M69 69/APM-RI X H272 CMB76A-1419-A-1B-1Y-2B-1Y-1B-0Y	0	3	0	1.0
250	69-82 MONA X NACKTA CMB77-257-9Y-1B-1Y-1B-1Y-0B	0	3	0	1.0
334	MUS-S*(POR-C-GASK1766 X DEN/BDGC GAS X D (N) CMB77-1335-A-1Y-2B-2Y-1B-1Y-0B	0	3	0	1.0
171	CI15475 X CELAYA*5* 5106/H272 X 11012-2-CHE CMB77-1677-B-1Y-3B-1Y-3B-1Y-0B	0	1	3	1.3
152	11012-2-MINN907-SP(CHO X CR115-POR/ 5106) CMB74A-1787-B-0B-1Y-1B-1Y-1B-0Y	0	2	3	1.6
299	M69 69 X APM-RI/NACKTA CMB76A-592-2B-1Y-1B-1Y-1B-0Y	3	3	0	2.0

Table 4. Top performance entries: Stripe rust (leaf)

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
61	ASIA	PAKISTAN	PUNJAB	5
158	SOUTH AMERICA	BOLIVIA	COCHABAMBA	5
169	SOUTH AMERICA	ECUADOR	QUITO, PICHINCHA	5
363	MIDDLE EAST	SYRIA	ALEPPO	5
463	ASIA	PAKISTAN	PUNJAB	5
500	ASIA	NEPAL	BHAIRAHWA	5

*VARIABLE IDENTIFICATIONS
5 STRP RT L

VTY NO	VARIETY OR CROSS AND PEDIGREE	LOCATIONS 61	158	169	363	463	500	STRP RT L MEAN
								NOBS (6)
163	69 B2 x ARM 1845 CI 9629 2 CMB77 466 2Y 1B 1Y-1B-1Y-0B	---	TMR	10MR	10S	0	0	2 9
62	HJA A33-TAL (DS505/PDR-EB105) x (M67) CMB76A-1106 B-2B-1Y 1B 1Y-1B-0Y	---	10MS-S	10MR	---	0	0	3 5
214	APM-1865 x HEAD/ZEMIR-AGYPT x NACKTA CMB77 1022 0Y 2B 1Y-2B-1Y-0B	---	10MS	5MR	10S	0	T-5S	5 0
14	1206N AMMSEL76A/ NACKTA x MARIS CANON CMB76A-721-1B-2Y-3B 1Y-1B-0Y	---	20MS	5MS	10S	0	0	6.0
175	M69 77-6HI R RCI NO 87 x CELAYA"S"-5106 CMB76A-96-1Y-1B-2Y-2B-2Y-0B	5MR	20MS	10MS	10S	0	TS	6 1
30	11012 2-MZG x MZG-BEN CMB76A-1021 A-4B-1Y-1B-1Y-1B-0Y	---	20MS	20MS	---	10S	0	10 5

Table 5. Top performance entries: Powdery mildew

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
8	AFRICA	EGYPT	KAFR EL SHEIKH	61
88	EUROPE	SPAIN	MADRID	61
174	AFRICA	ALGERIA	CONSTANTINE	61
363	MIDDLE EAST	SYRIA	ALEPPO	61
368	MIDDLE EAST	CYPRUS	ATHALASSA	61
451	EUROPE	SPAIN	VALLADOLID	61
477	EUROPE	NORWAY		61
500	ASIA	NEPAL	BHAIRAHWA	61
512	EUROPE	ENGLAND	NORFOLK	61

*VARIABLE IDENTIFICATIONS
61 POW M 0-9

VTY NO	VARIETY OR CROSS AND PEDIGREE	LOCATIONS 008	088	174	363	368	451	477	500	512	POW M (0-9) MEAN
										NOBS	(9)
216	WI2198/EMIR AGYPT X NACKTA CMB77 1046 3Y 1B 1Y-13 1Y-0B	0	0	---	1	1	---	0	0	2	0.6
99	AP1-CM67 X MZQ-116155 CMB77 9 67 1Y-4B 1Y 1B 1Y 0B	0	0	1	2	2	---	0	0	1	0.8
326	MONA-EMIR X GVA NOPAL CMB77 282 1Y-1B 1Y-1B-1Y-0B	0	---	---	---	0	---	---	0	3	0.8
14	1206N AMMSEL/GAS NACKTA X MARIS CANON CMB76A 723 1B 2Y-3B 1Y-1B-0Y	0	0	---	2	2	---	0	0	3	1.0
33	CI424 X G 134 APM/BDGC-GAS X APM-HC19 3 CMB76A 1112 A-1B-1Y-3B 1Y-1B-0Y	0	0	---	1	2	---	2	0	3	1.1
299	M69 69 X APM-RL NACKTA CMB76A 592 2B-1Y 1B-1Y-1B-0Y	1	0	---	2	1	---	0	0	4	1.1
136	CBCD MR-AVT/PRO-TOL I X CER(2)-TOL I MONA-EMIR CMB76A 408 2B-1Y-1B 1Y-1B-0Y	0	0	1	2	1	---	2	0	4	1.3
215	EMIR-SHABEI X CM67/NIGRATE CMB77 1029 3Y 0B 1Y-1B 1Y-0B	1	1	1	2	1	---	0	0	4	1.3
264	MONA X MZQ-DL71 CMB77-38 [illegible] 1B 2Y-1B-1Y-0B	1	3	---	2	3	0	0	0	1	1.3
139	EMIR-NACKTA X NOPAL "S" CMB76A 132 4B 1Y-1B-2Y-1B-0Y	0	---	---	3	2	---	0	0	4	1.5
210	DWG1-APICO X S107/1101A 2-CAL MR CMB77-535-8Y-1B 2Y-1B 1Y-0B	0	0	---	3	4	---	2	0	3	1.7
344	APM-IB65 APM ATHS X GVA CMB75 74-1Y 1B 1Y-1B-1Y-0B	1	0	---	2	4	---	0	3	4	2.0
321	MONA-EMIR X GVA-NOPAL CMB77-282 1Y 1B-3Y-2B-1Y-0B	0	---	---	1	1	---	2	0	3	2.3

Table 6. Top performance entries: Scald

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
13	AFRICA	KENYA	RIFT VALLEY	69
169	SOUTH AMERICA	ECUADOR	QUITO,PICHINCHA	69
183	AFRICA	ETHIOPIA	SHOA	69
351	NORTH AMERICA	MEXICO	TLAXCALA	69
363	MIDDLE EAST	SYRIA	ALEPPO	69
368	MIDDLE EAST	CYPRUS	ATHALASSA	69
471	EUROPE	SPAIN	ZARAGOZA	69
512	EUROPE	ENGLAND	NORFOLK	69

*VARIABLE IDENTIFICATIONS
69 SCLD 0-9

VTY NO	VARIETY OR CROSS AND PEDIGREE	LOCATIONS 013	169	183	351	363	368	471	512	SCLD (0-9) MEAN NOBS	(B)
221	BCD MR-M76 X API-5166 CMB76A 165 149 0B-1Y-2B-1Y-0B	---	0	7	0	---	0	0	1	1.3	
64	API-CM67 X (10B271 X RE"S" X POR U SASK1766 CMB76A 1260 A-1B-1Y-2B-1Y-1B-0Y	---	0	7	0	2	0	0	1	1.4	
21	CELAYA X MZ7 GVA CMB76A 4 3Y 1B 1Y-1B-1Y-0B	---	0	8	0	1	0	0	1	1.4	
66	SULTAN NACKTA/APM-1865 X GVA(APM-HC1906 X APM-RL BCD MP-GVA) CMB76A 1136 A-0B-1Y-1B 1Y-1B-0Y	---	0	5	3	---	0	0	1	1.5	
89	(CR115 POR X BC/API CM67)CELAYA-CI309 2 CMB77 455 15Y 1B 2Y-1B-1Y-0B	---	0	7	0	---	0	0	2	1.5	
213	APM-1865 X WEFAH(EMIR/AGYPT X NACKTA CMB77 1622 0Y 2B 1Y-2B-1Y-0B	---	0	8	0	---	0	0	1	1.5	
166	API-CM67 X HBCCXXVIII"D P CMB77 1100-21Y 3B 2Y-1B-3Y-0B	1	0	9	0	2	0	0	1	1.6	
185	CM67-U SASK1800 X PRO-CM67/NP10B CMB77 14-1 -1B 2Y-2B-1Y-0B	---	0	9	0	1	0	0	1	1.6	
167	H251-CHOYA CMB74A-1067-4B 3Y-1B-1Y-1B-0Y	---	0	9	0	1	0	0	1	1.6	
218	(S P(6H) APRO X CAL MR/MARI-COHO) 11012 2-TERN CMB77-1230 0-1Y 1B-1Y-1B-1Y-0B	---	0	8	0	2	0	0	1	1.6	
168	(CM67-U SASK1800 X PRO-CM67[(BRA-TRA X CER/21/AVT(2) VI X TOLI-BZ) AVT-CH1)CHOYA X DS APRO/DL70-DZ02 27B CMB77 1476 1-1Y 2B 1Y-2B-1Y-0B	2	0	9	0	2	0	0	1	1.8	
200	ENSENADA	3	0	8	0	2	0	0	1	1.8	
68	(CAL MR X DS APRO/SAS/11012 2-TERN X B112 CMB76A 1441 A-0B 1Y 1B 1Y-1B-0Y	---	0	9	0	2	1	0	1	1.9	
111	PYO-OMN BARLEY X [illegible] CMB77 1140-[illegible] 1Y-1B 1Y 0B	---	0	8	0	2	1	0	2	1.9	
195	BAHTIM7-DL71 X CHC X GALI CMB77-18[illegible] 5Y 2B 1Y 1B-1Y-0B	2	0	8	0	1	0	---	2	1.9	
212	RM150B-11012 2 X B[illegible] MR/CM67-CENTENO CMB77-214-13Y 2B-1Y-3B-1Y-0B	3	0	8	0	1	0	0	3	1.9	
225	CELAYA"S" 5166 X CELAYA CI3905 2(MAN PER X API CM67/114100) CMB77-1341 0-3Y 1B-1Y-2B-3Y-0B	---	0	9	0	2	0	0	2	1.9	

Table 7. Top performance entries: Leaf rust

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
169	SOUTH AMERICA	ECUADOR	QUITO-FICHINCHA	7
351	NORTH AMERICA	MEXICO	TLAXCALA	7
358	AFRICA	MOROCCO	RABAT	7
368	MIDDLE EAST	CYPRUS	ATHALASSA	7
471	EUROPE	SPAIN	ZARAGOZA	7

*VARIABLE IDENTIFICATIONS
7 LEAF RUST

VTY NO	VARIETY OR CROSS AND PEDIGREE	LOCATIONS 169	351	358	368	471	LEAF RUST MEAN
							NOBS (5)
233	HUA A33-UNIONCAL MR X DS-APRO/GAS) CMB76A-1345-C 3B-1Y-1B-1Y-2B-0Y	10S	0	TMS	TMR	---	2 8
234	ORE"S"-BENCAPI (M67 X M70/APM-IB65) CMB76A-1351-D 1B-1Y-1B-1Y-1B-0Y	---	0	10MR-MS	TMR	---	2 8
236	CELAYA X CM67 MONAROJA F4715 X OLLI-M64 69/DS APRO) CMB76A-1410-A 1B-1Y-1B-3Y-1B-0Y	---	0	10MR MS	TMR	---	2 8
66	SULTAN-NACKTA APM 1B69 X GVA(APM HC1906 X APM-RL BCO MR GVA) CMB76A-1306-A-66 1Y-1B-1Y-1B-0Y	5S	5MS-MR	5S	20MR	5S	5 4
219	CELAYA X M70 GVA CMB76A-4-3Y-1B-1Y-1B-1Y-0B	---	20MS-MR	5MR-MS	10MR	5MR	6 5
14	1206N AMMSEL/GAS NACKTA X MARIS CANON CMB76A-723-1B-2Y-0B-1Y-1B-0Y	5S	20MS-MR	---	10MR	5MS	7 3
138	ORE"S" X EMIR NACKTA/AST907) CMB76A-427-1H-1Y-1B-1Y-1B-0Y	---	5MS-MR	10S-MS	20MS	5S	8 8
154	11012-2-CM67 X POR 9 SASK1800/APM-HC1905 CMB76-365-30Y-1B-1Y-1B-3Y-0B	5S	20MS-MR	TMR	20MS	10S	9 6
160	MINN480-GVA X 11012-2-TERN CMB77-192-1JY-1B-3Y-1B-2Y-0B	5S	20MS-MR	20MR-MS	10MR	10S	10 2
164	EMIR-SHABET X CM67/NIGRATE CMB77-1029-1Y-1P-2Y-2B-1Y-0B	---	10MS-MR	20MR-MS	25MS	10S	13 5
165	EMIR-SHABET X CM67/NIGRATE CMB77-1029-4Y-1B-1Y-1B-1Y-0B	---	20MS-MR	20MS	25MS	10S	15 5

Table 8. Top performance entries: Barley yellow dwarf

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
88	EUROPE	SPAIN	MADRID	77
119	OCEANIA	NEW ZEALAND	MANAWATU	77
484	NORTH AMERICA	CANADA	QUEBEC	77

*VARIABLE IDENTIFICATIONS
77 BYDV 0-9

VTY NO	VARIETY OR CROSS AND PEDIGREE	88	119	484	BYDV (0-9) MEAN
				NOBS	(3)
76	(API-CM67 X APM-IB65/API-CM67 X II260 L2966 69)BEN CMB77-125-1Y-1B-1Y-2B-1Y-0B	0	4	3	2 3
142	ORE"S" X API-CM67 CMB76-322-13H-1Y-1B-1Y-1B-0Y	0	4	3	2 3
118	API-CM67 X CHOYA-GALT(CAL MR X DS-APRO/API-CM67) CMB77-1269-D-2Y-2B-1Y-1B-1Y-0B	0	5	3	2 7
11	BAHTIM7-DL71 X MANCHURIA CMB76A-314-4H-1Y-1B-1Y-2B-0Y	0	4	5	3 0
18	NOPAL"S"/11012 2-CM67 X POR-U SASK18 0 CMB76-291-5H-1Y-1B-2Y-1B-0Y	0	4	5	3 0
40	(CM67-U SASK1802 X DS-APRO 1Y/11012 -CM67 X POR-U SASK1802)API-CM67 X GAS CMB76A-1189-A-4B-3Y-1B-1Y-1B-0Y	0	4	5	3 0
4	CM67	0	5	5	3 3
19	API-CM67 X AGER CMB76-408-3M-5Y-3B-1Y-1B-0Y	3	4	3	3 3
42	ORE"S" X API-CM67/MARI-COHO X MANCHU IA CMB76A-1199-A-1B-1Y-1B-1Y-2B-0Y	0	5	5	3 3
87	CM67-MANKER X CHOYA-GALT CMB77-429-1Y-4B-1Y-1B-1Y-0B	0	5	5	3 3
104	API-CM67 X DL71/ROW906 73 CMB77-1097-11Y-1B-2Y-1B-1Y-0B	3	4	3	3 3
243	M64 69-M65 211 X APM-RL/API-CM67 CMB76-579-5Y-1B-1Y-1B-5Y-0B	0	5	5	3 3
300	BUSSELL	1	4	5	3 3
32	API-CM67 X FB(E)NYT72/NOPAL"S" X 3300 -ATTIKI CMB76A-1054-E-4B-1Y-1B-1Y-1B-0Y	5	3	3	3 7
57	CELAYA(API-CM67 X APM-IB65/API-CM67 II266 L2966 69) CMB77-131-14Y-1B-1Y-1B-3Y-0B	3	4	5	4 0
105	API-CM67 X DL71/ROW906 73 CMB77-1097-11Y-1B-3Y-1B-1Y-0B	5	4	3	4 0
123	API-CM67 X 11012 2/SMAI 3S 6W BC(CM6 /APRO X SV02109-MARI)ENSENADA) CMB77-1585-E-2Y-1B-1Y-1B-2Y-0B	3	5	4	4 0
79	MINN480-GVA X 11012 2-TERN CMB77-192-17Y-1B-1Y-1B-1Y-0B	3	5	5	4 3
92	PCO MR X DS-APRO/APM-5106 CMB77-461-10Y-3B-2Y-1B-2Y-0B	3	5	5	4 3
257	MONA-GATEWAY63(AS46-KRISTINA/APM-DWARF21 X POR-IB65) CMB77-297-2Y-1B-1Y-1B-1Y-0B	3	5	5	4 3
73	11012 2-CM67 X POR-U SASK1800/CH-DU CMB77-38-8Y-1B-1Y-1B-1Y-0B	5	5	5	5 0
77	MANKER X API-CM67/CELAYA-CI3909 2 CMB77-169-10Y-1B-1Y-1B-1Y-0B	5	5	5	5 0

Combined Table Selected by Barley Staff

Table 9. Top performance entries: Net blotch

LOCATION	CONTINENT	COUNTRY	AREA	VARIABLES INCLUDED
8	AFRICA	EGYPT	KAFR EL SHEIKH	66
119	OCEANIA	NEW ZEALAND	MANAWATU	66
148	NORTH AMERICA	U S A	MONTANA	66
163	SOUTH AMERICA	BRAZIL	SAO PAULO	66
358	AFRICA	MOROCCO	RABAT	66
368	MIDDLE EAST	CYPRUS	ATHALASSA	66
433	MIDDLE EAST	QATAR	BARADA	66

*VARIABLE IDENTIFICATIONS
66 NET B 0-9

VTY NO	VARIETY OR CROSS AND PEDIGREE	LOCATIONS 8	119	148	163	358	368	433	NET B (0-9) MEAN
								NOBS	(7)
1	APIZACO	1	3	1	2	0	1	0	1 1
3	CENTINELA	0	4	1	2	-------	1	0	1 3
91	(CR115-POR X BC/API-CM67)CELAYA-CI39 9 2 CMB77-455-1BY-0B-3Y-1B-1Y-0B	1	4	1	4	-------	0	0	1 7
23	CELO-CI12010 X PUEBLA CMB76-950-F-2B-1Y-1B-1Y-1B-0Y	0	4	3	2	2	1	0	1 7
25	POR-U SASK1766 X NB6212/API-CM67 X DL71 CMB76A-994 F-5B-3Y-1B-1Y-2B-0Y	0	4	1	4	2	1	0	1 7
5	MASURKA	0	3	3	2	-------	2	1	1 8
16	ORE"S" X INDIAN DWARF-CM67 CMB76-254-4B-1Y-1B-1Y-1B-0Y	0	4	1	3	-------	1	3	2 0
33	CI424 X G 134-APM/BDGC GAS X APM-HC1905 CMB76A-1112-A-1B-1Y-3B-1Y-1B-0Y	0	4	3	3	3	1	0	2 0
38	(NOPAL(MOR-BORE9 X PRO-TDL I/API)) CI12125/API-CM67 X MZG CMB76A-1173-B-2B-1Y-2B-2Y-1B-0Y	1	4	3	2	4	0	0	2 0
157	CM67-U SASK1900 X PRO-CM67(PRO-TDL I X CER(2)-TDL I 5106) CMB77-13-[illegible]-1B-1Y-1B-2Y-0B	0	3	2	2	-------	1	4	2 0
217	API-CM67 X MBCC(XVIII/D P CMB77-1100-9Y-1B-1Y-1B-1Y-0B	1	3	3	4	2	1	0	2 0
283	69 62-MONA X MARIS DINGO CMB77-265-5Y-1B-3Y-1B-1Y-0B	0	4	4	3	-------	1	0	2 0
93	BAL16-11012 2 X CELAYA-CI3909 2 CMB77-465-5Y-1B-2Y-1B-1Y-0B	0	4	3	2	-------	0	4	2 2

Combined Table Selected by Barley Staff