BIBLIOGRAPHIC DATA SHEET

1. CONTROL NUMBER: PN-AAH-484

2. SUBJECT CLASSIFICATION (695): AF00-0180-0000

3. TITLE AND SUBTITLE (240)

Results of the Fourteenth International Spring Wheat Yield Nursery (ISWYN) 1977-1978

4. PERSONAL AUTHORS (100)

5. CORPORATE AUTHORS (101)

CIMMYT

6. DOCUMENT DATE (110)	7. NUMBER OF PAGES (120)	8. ARC NUMBER (170)
1978	101p.	633.11.C397b

9. REFERENCE ORGANIZATION (130)

CIMMYT

10. SUPPLEMENTARY NOTES (500)

(In Information bulletin no. 51)

11. ABSTRACT (950)

12. DESCRIPTORS (920)

Yield
Spring wheat
Wheat
Varieties
High yield
Plant breeding
Disease resistance
Fungicides

13. PROJECT NUMBER (150)

931084000

14. CONTRACT NO.(140)

AID/ta-G-1493

15. CONTRACT TYPE (140)

16. TYPE OF DOCUMENT (160)

AID 590-7 (10-79)

INFORMATION BULLETIN No. 51

RESULTS OF THE FOURTEENTH

INTERNATIONAL SPRING WHEAT

YIELD NURSERY

(ISWYN) 1977–78

CIMMYT

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

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

RESULTS OF THE FOURTEENTH INTERNATIONAL SPRING WHEAT YIELD NURSERY (ISWYN)

1977 – 1978

INTRODUCTION

This report on the 14th ISWYN presents a summary of the results from 71 sites throughout the world where this nursery was grown during 1977–78. The nursery contained cultivars and advanced lines of spring wheat selected from major spring wheat growing areas of the world. Some widely adapted high yielding entries were retained while other newly released cultivars and lines were added. The ISWYN is sent to selected national, regional and academic institutions engaged in wheat research around the world.

The ISWYN has the following objectives:

1. Dissemination of superior cultivars and lines of spring wheat produced in national and international programs.

2. Identification of wheat cultivars with a high yield and stable adaptation in wide geographic areas. These varieties are used in breeding programs of CIMMYT to further incorporate certain characteristics, in order to obtain suitable recombinations.

3. The ISWYN also identifies cultivars with superior disease resistance, sheds information on daylength neutrality defines environments and soils, and limits of wheat cultivation sites.

Many of the ISWYN varieties have been selected by national programs and released as cultivars to replace the pre-existing land race type wheats. There are many successful wheat cultivars released in certain geographic areas which were bred in far distant CIMMYT programs and were disseminated through ISWYN.

MATERIALS AND METHODS

Seed of wheat varieties included in 14th ISWYN was multiplied at CIANO, Ciudad Obregon, Sonora, Mexico, during the winter cycle of 1976–77. The nursery consisted of 50 entries, which included 47 bread wheat cultivars and lines, one triticale, one durum wheat and one local check.

Prior to distribution, the seed was cleaned and treated with an organic fungicide. Each plot consisted of six rows, each 2.5 meters long with 30 cm between rows. The nursery was replicated three times. Each nursery set included a field book for recording data and a set of instructions on nursery management.

The identities of the entries in the 14th ISWYN, various agronomic characteristics and the place of origin are given in table A. Figures 1 and 2 illustrate the locations, and the elevations and approximate growing period at each location. Figure 3 represents the grouping of locations into similar geographical units, as regions.

RESULTS AND DISCUSSION

This report presents the summary of only 49 varieties because variety Era was excluded from the analysis and is not reported here.

Of the 104 sets of the 14th ISWYN distributed, 71 cooperators returned the results before the summarization of this report. These individual location data are presented in tables 1–71. Summaries of yield, agronomic and disease data for nine geographic regions (I–IX) are given in tables 72–80.

A summary table of all data from all locations is provided in table 81. The grain yield of the lowest and top yielders in the 14th ISWYN when averaged across all locations, ranged from 2946 kg/ha for variety Ollanta to 4212 kg/ha for Mapache, a triticale variety. Other high yielding, well adpated varieties included Nacozari 76 (var. 18), Nacozari "S" (var. 3), Nacozari "S" (var. 26), Pavon 76 (var. 4), Pavon "S" (var. 11), Chiroca "S" (var. 19), Cuckoo "S" (var. 12), local check (var. 50) and Moncho "S" (var. 10).

It should be emphasized that although the triticale variety Mapache gave the highest average yield, it only occupied the hignest yield position in 16 of the 69 locations. At 53 locations, a wheat variety was at the top. Mapache also showed an unusual performance in Israel giving a yield of 9053 kg/ha compared with the next best wheat Nacozari 76, which yielded 7738 kg/na. In Guanajuato, Mexico Mapache yielded 10609 kg/ha, compared with 9568 kg/ha for Nacozari.

Cultivars Nacozari 76, Pavon 76 and their various sib selections originating from the cross CM-5287 and CM-8399 respectively, were also the highest yielders in the 12th and 13th ISWYN. The results of 14th ISWYN confirm their wide adaptation and high yield. The variety Nacozari 76 is widely grown in Yaqui Valley, Sonora, Mexico, and a sister selection of Nacozari 76 (var. 3 in the 14th ISWYN) has been recommended for cultivation in southern Sinaloa, Mexico in the name of Jauhara 77. Pavon 76 is also widely grown in Mexico, and a sister selection has been released in Algeria as Cirta 78.

On the average, the top yielding wheat variety Nacozari 76 (var. 18) performed 24 and 10 per cent better than the two widely adapted, high yielding, commercial cultivars Siete Cerros and Anza, respectively.

The varieties Chiroca "S" (var. 19), Cuckoo "S" (var. 12) and Moncho "S" (var. 10) also occupy superior positions compared with Anza (var. 25) and Siete Cerros (var. 13). Cuckoo "S" (var. 12) has been commercially released as Harmoun in the Middle East, and as Abu Ghraib 3 in Iraq.

Chiroca "S" (var. 19) is being considered as a cultivar in India and Spain. The lowest five positions for average yield were occupied by the tall varieties Ollanta, Glenlea, E. Dakaru, Giza 155 and Butte.

Wheat varieties which gave the highest average yield performance in nine geographic regions are given below.

No.	REGION	VARIETY	AVERAGE YLD. kg/ha
1	North Africa	Nacozari 76 (var. 18)	5306
2	Middle East	Cuckoo "S" (var. 12)	3916
3	Indian Subcontinent	Nacozari 76 (var. 18)	4140
4	Far East	Flicker "S" (var. 29)	3414
5	Eastern Europe	Local Check (var. 50)	4401
6	Northern USA and Canada	Pavon "S" (var. 7)	3768
7	Northern Mexico and Southern USA	Pavon 76 (var. 4)	6029
8	Highlands (See table 79)	Nacozari "S" (var. 26)	4357
9	Southern Cone, South America	Moncho "S" (var. 10)	2573

In addition to yield, this Information Bulletin also summarizes data on test weight, days to flower and maturity; resistance to powdery mildew, *Septoria* and scab, plant height; lodging and shattering resistance; 1000 grain weight; ears/M^2 and protein percentage.

GRAIN QUALITY CHARACTERISTICS

The CIMMYT Wheat Quality Laboratory has determined a number of flour characteristics for many years. Seed for the flour tests for the 14th ISWYN was obtained from the Yaqui Valley, Sonora, Mexico, 1977–78. This is an irrigation district where intensive agronomic management is common.

Information on the various flour characteristics of the entries from CIANO, Yaqui Valley is given in table B. The standard check was the flour obtained from the variety Hermosillo.

Test Weight

Grain density is commonly measured as the weight per volume, in kilograms per hectoliter. For cooperators more accustomed to the test weight expressed in pounds per bushel, 75 kg/hl is approximately equivalent to 60 lb/bu. Seed size and 1000 kernel weight are related to test weight values.

Micro-Pelshenke (PK)

This test, sometimes referred to as the wheat meal fermentation-time test, is used to determine gluten strength. It is based on the time needed for the gas developed by the yeast to break free from a dough-ball made with 3 grams of whole wheat flour, when it is suspended in water at a standard temperature. This time is correlated with gluten strength. Lines with values for more than 100 minutes can be considered as having strong gluten.

Mixographic Form

The mixograph measures and records the resistance of a dough to mixing, and it is used mainly for the characterization of wheat varieties and of flour types. Mixing curves indicate optimum development time, stability and the strength of the dough, which is measured according to the mixographic form. The scale for the classification of mixograms or mixographic forms is 1 to 8, in which one is a wheat with a very weak gluten and eight represents a very strong gluten.

Alveogram

The gluten characteristics of tenacity and extensibility are determined by the alveogram. Dough tenacity or resistance to extension is expressed as P, and dough expansion or extensibility is indicated by G. The ratio of P/G is used as a guide in selecting bread wheats of well balanced gluten in both soft and hard wheats. When the ratio approximates a value of three, the gluten is considered well balanced. The area under the alveogram curve is indicated as W and the larger its value, the stronger is the gluten strength. Bread wheats with W values of about 300 are considered to be strong, and of less than 200 to be weak.

Loaf Volume

This is the volume in cubic centimeters of a loaf of bread baked from 100 grams of flour using the standard methods described by the American Association of Cereal Chemists. Strong gluten wheats tend to have high loaf volume, while soft wheats give smaller loaves and are more often used for pastry in other products.

Water Absorption

Flours from different varieties have differing capacities for water absorption in the dough making process. Those with a higher absorption capacity are considered by the baking industry to be the most desirable. The absorption is measured as the weight of water absorbed by a given weight of flour.

Flour Yield

The relative milling capacity of different selections is expressed as the percentage flour yield from a known quantity of grain. This important figure is related to the test weight of the seed lot.

Protein

Nitrogen in the samples is determined by the Kjeldahl method. The nitrogen values obtained are multiplied by 5.7 to convert N to protein.

Sedimentation

As in the micro-Pelshenke test, the sedimentation value is largely influenced by the quality of the grain protein. Sedimentation values of 30 cc are typical of lines with weak gluten, while values of 40 cc or above suggest strong gluten.

Mixing Time

Bakers prefer to use flours that require medium periods of mixing time. The time in minutes required for mixing dough to optimum consistency, is a measure of the desirability of the line for bread-making. A certain amount of flour is mixed with water to develop a curve and the time needed to reach the highest point of the curve is recorded as the mixing time. Very short or very long mixing times are regarded as being undesirable, by the baking industry.

DATA PROCESSING IN ANALYSIS OF VARIANCE

The tables and analyses in this report have been produced by a new set of computer programs called NAP, which were developed by the Information Science/Genetic Resources (IS/GR) Program, University of Colorado, Boulder, Colorado, U.S.A., and which take the place of the old RAPID programs.

FIGURE 1. LOCATIONS INCLUDED IN THE 14th ISWYN 1977-78

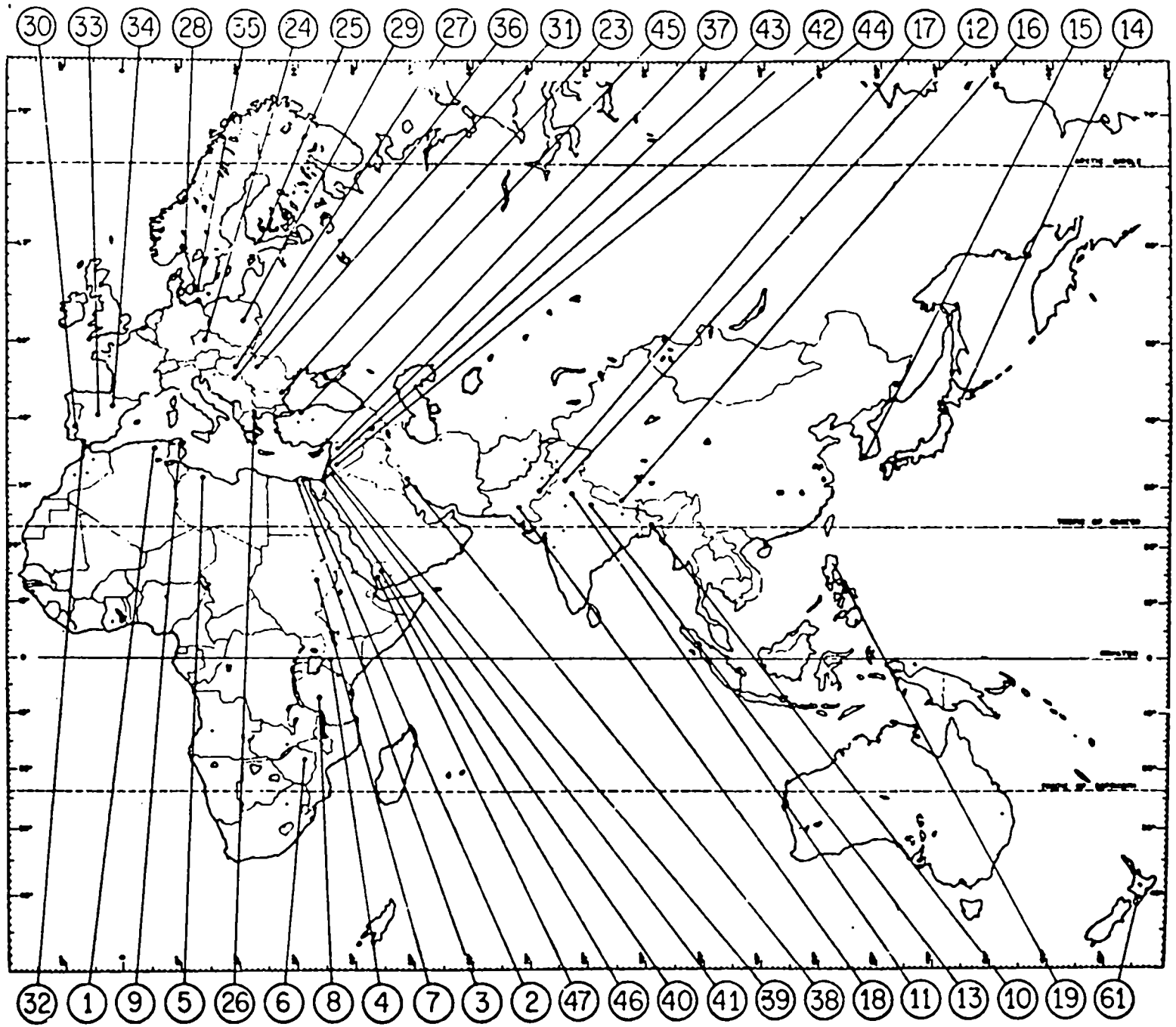


FIGURE 1. CONT'D.

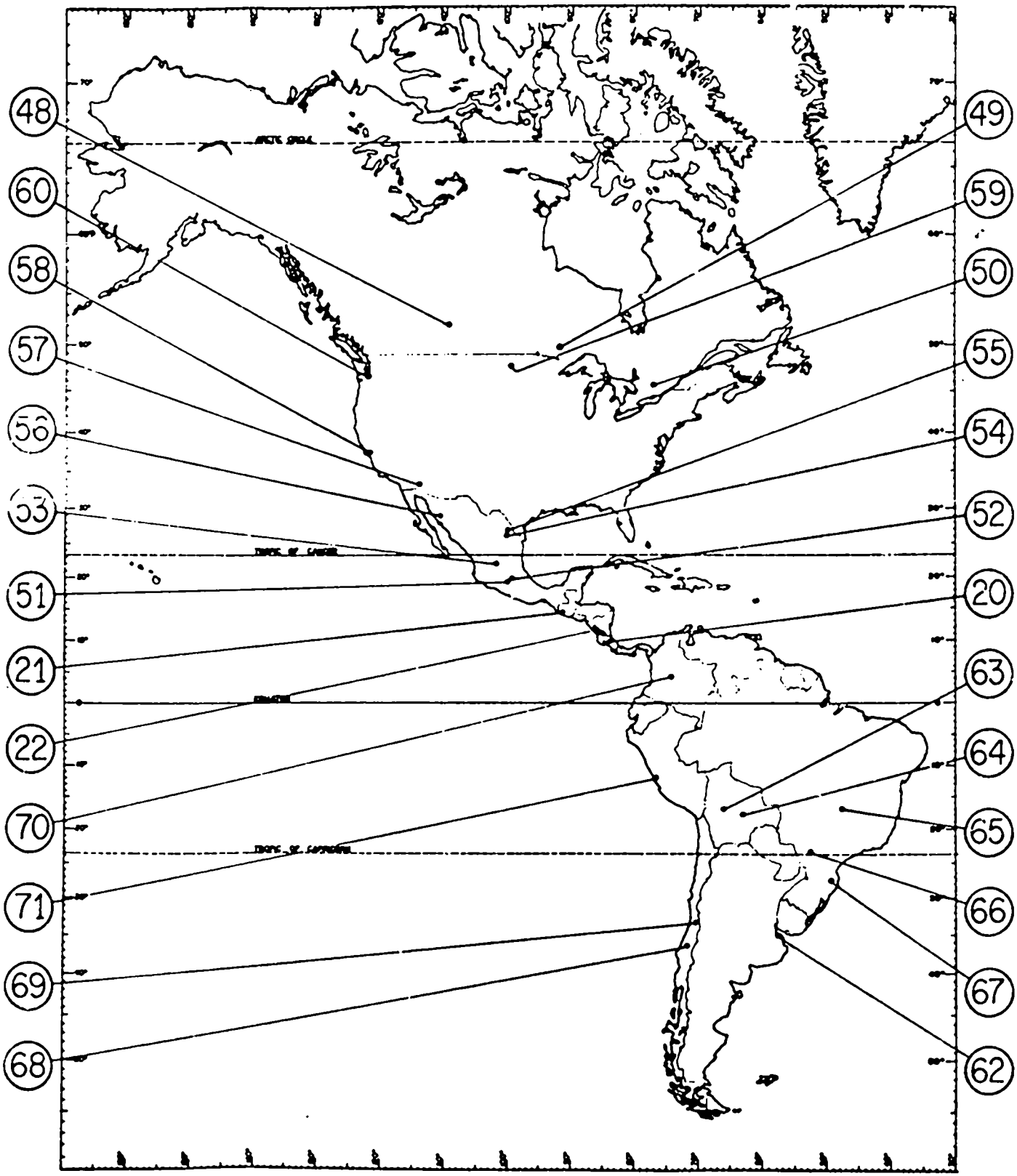
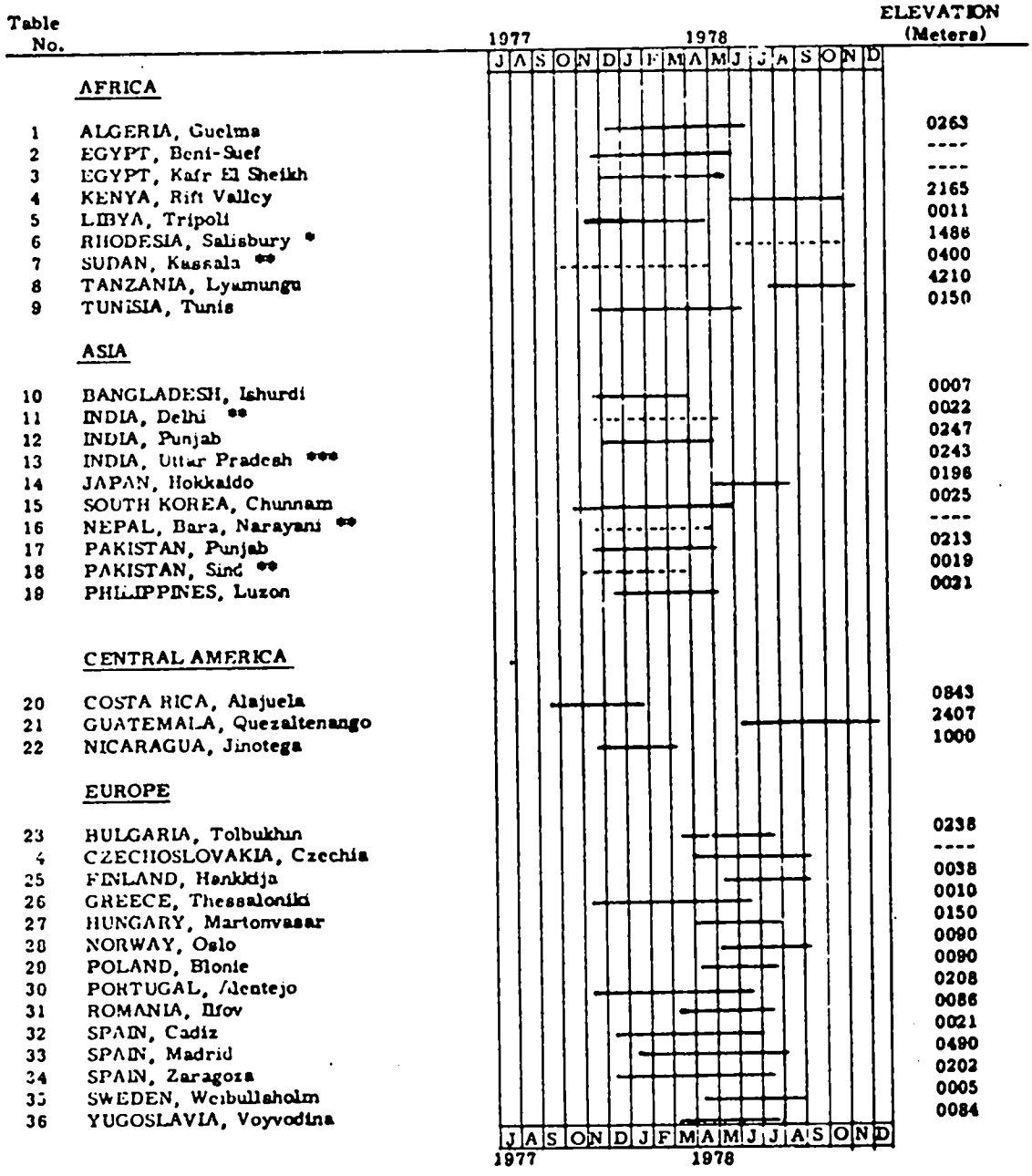
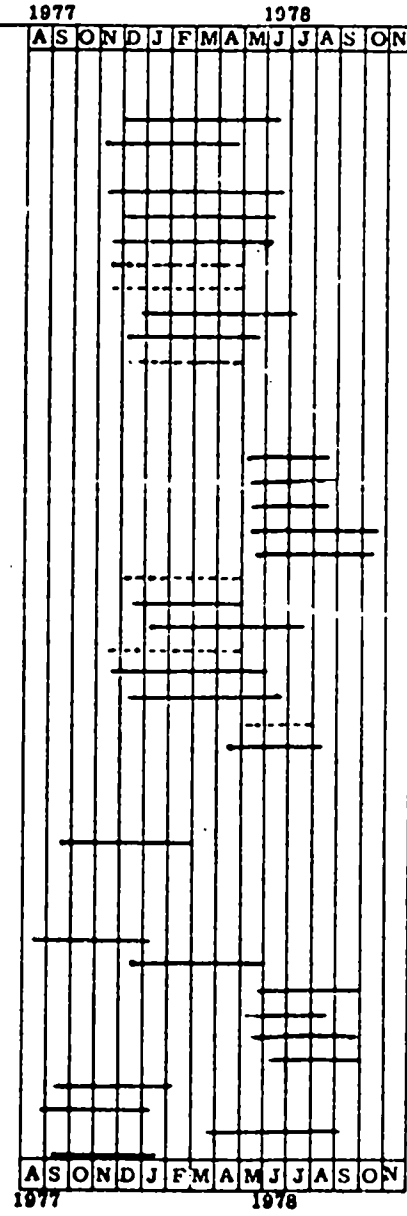


FIGURE 2. Growing season and elevation of locations reported in the 14th. ISWYN 1977-78.



Cont'd. FIGURE 2.

Table No.		ELEVATION (Meters)
	MIDDLE EAST	
37	CYPRUS, Laxia	0150
38	IRAN, Khuzestan	0020
39	ISRAEL, Nve-Yaar ***	0060
40	ISRAEL, R.D. Sde-Gat	0120
41	JORDAN, Jordan Valley	0224
42	LEBANON, Beka'a Valley	0950
43	SYRIA, Aleppo **	0300
44	SYRIA, Derra Mouhaphada **	0575
45	TURKEY, Sakarya	0033
46	YEMEN, S. Governorate	0600
47	YEMEN, Taiz **	1350
	NORTH AMERICA	
48	CANADA, Alberta	0677
49	CANADA, Manitoba	0235
50	CANADA, Ontario	0333
51	MEXICO, Edo. de Mexico (Atizapán)	2640
52	MEXICO, Edo. de Mexico (El Batán)	2249
53	MEXICO, Guanajuato **	1765
54	MEXICO, Nuevo Leon (Monterrey)	0537
55	MEXICO, Nuevo Leon (Navidad)	1805
56	MEXICO, Sonora (1st. date) **	0038
57	U.S.A., Arizona	----
58	U.S.A., California	0018
59	U.S.A., North Dakota **	----
60	U.S.A., Washington	0762
	OCEANIA	
61	NEW ZEALAND, Manawatu	0015
	SOUTH AMERICA	
62	ARGENTINA, Buenos Aires	0072
63	BOLIVIA, Cochabamba	2730
64	BOLIVIA, Santa Cruz	0386
65	BRAZIL, Distrito Federal	1000
66	BRAZIL, Paraná	----
67	BRAZIL, Rio Grande do Sul **	0473
68	CHILE, Chillan	0144
69	CHILE, Santiago	0629
70	COLOMBIA, Cundinamarca	2550
71	PERU, Lima	0251



* Date planted not reported.
** Date harvested not reported.
*** Date planted and harvested not reported.

FIGURE 3. REGIONAL SUMMARY (GROUP I - IX) FOR THE 14th ISWYN 1977-78

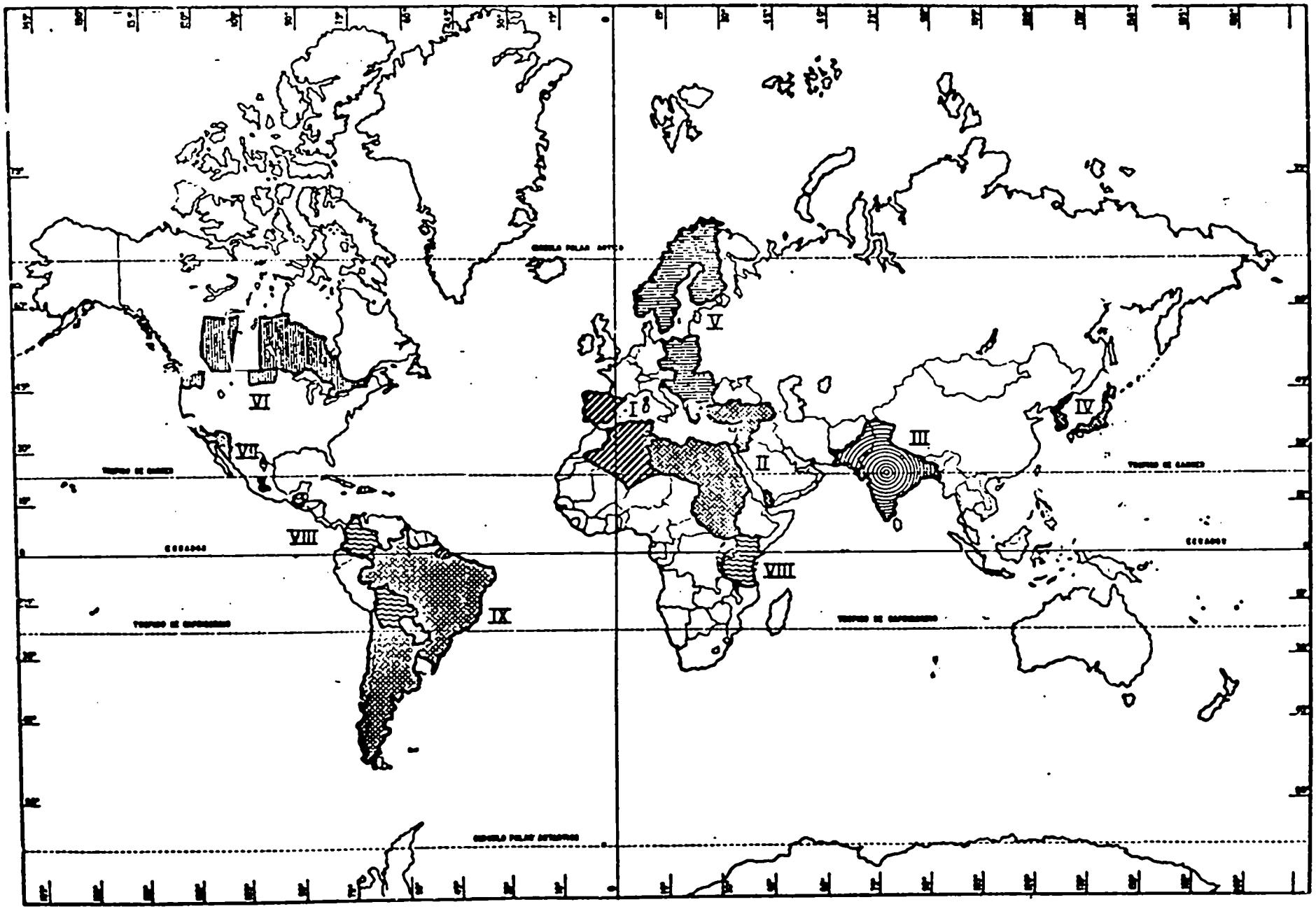


TABLE A. Varieties included in the 14th. ISWYN 1977-78 with pedigrees, country of origin, and varietal status.

	VARIETY OR CROSS AND PEDIGREE		ORIGIN	Status of Variety
1-	Hork "S"	CM-8874-K-1M-1Y-0M-(1-356Y)-(1-200B)	MEXICO	Advanced line
2-	Butte = ND 519		U.S.A.	Cultivar
3-	Nacozari "S"	CM-5287-J-1Y-2M-1Y-4M-0Y	MEXICO	Advanced line
4-	Pavon 76		MEXICO	Cultivar
5-	Ollanta		PERU	Cultivar
6-	$Y50_E$ - Kal^3	II-35188-5M-(F_1)-31Y-0M-8M-0Y	MEXICO	Advanced line
7-	Pavon "S"	CM-8399-D-4M-2Y-2M-3Y-1M-0Y	MEXICO	Advanced line
8-	EPA		U.S.A.	Cultivar
9-	Magpie "S"	CM-20668-D-4Y-4M-1Y-0Y	MEXICO	Cultivar
10-	Moncho "S"	CM-8288-A-2M-6Y-5M-1Y-1M-0Y	MEXICO	Advanced line
11-	Pavon "S"	CM-8399-D-4M-3Y-1M-1Y-0M	MEXICO	Advanced line
12-	Cuckoo "S"	II-28424-8Y-1M-1Y-0M-(1-161B)	MEXICO	Cultivar
13-	Siete Cerros		MEXICO	Cultivar
14-	S 331-Nor 67	JIT-43-2L	INDIA/LEB	Advanced line
15-	Mapache (triticale)		MEXICO	Advanced line
16-	Soltane		TUNISIA	Cultivar
17-	Tesopaco "S"	BR69-1Y-3M-0Y	MEXICO	Advanced line
18-	Nacozari 76		MEXICO	Cultivar
19-	Chiroca "S"	CM-8963-A-1M-1Y-1M-5Y-6M-0Y	MEXICO	Advanced line
20-	Choli "S"	II-21515-1P-1P-3P-5M-0Y	CHILE/MEXICO	Cultivar
[illegible]	Anizana		ECUADOR	Cultivar
[illegible]	Zapateco 73		MEXICO	Cultivar
[illegible]	Cocoraque 75		MEXICO	Cultivar
24-	Mexicali 75 (durum)		MEXICO	Cultivar
25-	ANZA		U.S.A.	Cultivar
26-	Nacozari "S"	CM-5287-J-1Y-2M-1Y-1M-0Y	MEXICO	Advanced line
27-	Condor "S"		AUSTRALIA	Cultivar
28-	Naofen		CHILE	Cultivar
29-	Flicker "S"	CM-8954-B-7M-1Y-1M-1Y-0M-(1-18B)	MEXICO	Advanced line
30-	Abu-Ghraib 3		IRAQ	Cultivar
31-	Glenlea		CANADA	Cultivar
32-	Dougga		TUNISIA	Cultivar
33-	Giza 155		EGYPT	Cultivar
34-	Torim 73		MEXICO	Cultivar
35-	Tanori 71		MEXICO	Cultivar
36-	UP 301 x Son 64-Pi62	JIT-35-2L	INDIA/LEB	Advanced line
37-	Kal-Bb	II-26992-30M-1Y-1M-3Y-0M-(1-208B)	MEXICO	Advanced line
38-	MN 7083		U.S.A.	Advanced line
39-	Sonalika		INDIA	Cultivar
40-	E. DAKARU		URUGUAY	Cultivar
41-	Cno"S" x Nad63-Chr"S"/Son-Kl. RendxBb	CM-1221-57M-3Y-0M-k000	ARGENTINA	Advanced line
42-	H-Ra^2F_2	II-41593-1R-3M-1S-2M-0S	INIA/MEXICO	Advanced line
43-	Pj-Gb x Nai 66	PK-594-80a-1a-0a	PAKISTAN	Advanced line
44-	Emu "S"	CM-8327-C-9M-1Y-1M-1Y-1M-0Y	MEXICO	Advanced line
45-	IAS 54		BRAZIL	Cultivar
46-	Bulbul=Pi62-Frond/Pi62-Mazoe x Mxp65	PK2858-7a-3a-4a-0a	PAKISTAN	Advanced line
47-	M.J. INTA		ARGENTINA	Cultivar
48-	Inia 66-Cno"S" x Cal/Bb#2 Resel	II-40041-5M-2R-2M-4S-0M	INIA/MEXICO	Cultivar
49-	Inia 66		MEXICO	Cultivar
50-	Local Check			

GUELMA STN EXP
I.D.G.C.

LATITUDE	036 30'N	DATE PLANTED	12/ 7/77	NITROGEN	APPLIED
LONGITUDE	007 30'E	DATE HARVESTED	6/29/78	PHOSPHORUS	APPLIED
ELEVATION	0263 M.ABOVE S.L.	AMOUNT OF MOISTURE	479 MM	POTASSIUM	APPLIED

SOWING DATE, SOIL MOISTURE CONDITION AND GERMINATION ‡ NOT REPORTED.
WEATHER NOT REPORTED.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: FLORENCE AURORE

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	STRP RT.L	PLNT HT
18	NACOZARI76	MEXICO	5655	5MR	83
50	LOCAL CHECK		5322	5MR	92
4	PAVON 76	MEXICO	5188	TR	88
25	ANZA	U.S.A.	5077	----	90
17	TESOPACO"S"	MEXICO	4977	----	92
7	PAVON"S"	MEXICO ***	4833	----	88
20	CHOLI"S"	CHILE/MEX	4755	----	92
1	HORK"S"	MEXICO	4733	10MR	83
47	M.J.INTA	ARGENTINA	4622	30S	93
32	DOUGGA	TUNISIA	4522	----	90
26	NACOZARI"S"	MEXICO	4500	----	85
11	PAVON"S"	MEXICO	4400	----	85
16	SOLTANE	TUNISIA	4388	----	88
37	KAL-BB	MEXICO	4277	10MR	65
12	CUCKOO"S"	MEXICO	4222	30MS	83
13	MONCHO"S"	MEXICO	4211	----	92
42	H-RA(2)F(2)	INIA/MEX	4188	----	78
[illegible]	MAPACHE (TRITICALE)	MEXICO	4166	----	90
36	UP301 X SON64-PI62	INDIA/LEB	4111	----	87
6	YSOE-KAL(3)	MEXICO	4055	----	92
[illegible]	BUTTE-ND519	U.S.A.	4055	TR	100
3	NACOZARI"S"	MEXICO	3988	----	82
28	NAOFEN	CHILE	3955	----	92
29	FLICKER"S"	MEXICO	3933	10MR	67
19	CHIROCA"S"	MEXICO	3900	----	80
5	OLLANTA	PERU	3777	----	92
44	EMU"S"	MEXICO	3755	----	82
31	GLENLEA	CANADA	3633	----	102
22	JUPATECO73	MEXICO	3555	80S	82
27	CONDOR"S"	AUSTRALIA	3444	5R	75
45	IAS54	BRAZIL	3389	5R	93
21	ANTIZANA	ECUADOR	3366	----	78
40	E.DAKARU	URUGUAY	3344	TR	95
14	S331-NOR67	INDIA/LEB	3233	20S	92
39	SONALIKA	INDIA	3211	10MR	78
38	MN7083	U.S.A.	3144	20MS	83
46	BULBUL	PAKISTAN	3055	80S	90
30	ABU-GHRAIB3	IRAQ	3022	30MS	82
9	MAGPIE"S"	MEXICO	2944	----	73
49	INIA66	MEXICO	2922	----	75
35	TANORI71	MEXICO	2889	----	72
33	GIZA155	EGYPT	2855	----	87
24	MEXICALI75 (DURUM)	MEXICO	2833	5R	80
13	SIETE CERROS	MEXICO	2822	90S	83
43	PJ-GB X NAI66	PAKISTAN	2822	60S	87
34	TORIM73	MEXICO	2711	----	57
48	YECORATO "S"	INIA/MEX	2678	TR	78
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2644	5MR	75
23	COCORAQUE75	MEXICO	2389	40S	60
		GRAND MEAN	3805.5	16.8	83.6
		STANDARD ERROR OF GRAND MEAN	36.8		0.6
		COEFFICIENT OF VARIATION AS PC	11.7		8.7
		LSD VARIETY MEANS 5 PC	723.9		11.8

CORRELATIONS

YIELD KG/HA		
STRP	RT.L	-0.26
PLNT	HT	P 44 0.22

TABLE B. Grain technology of the varieties included in the 14th. ISWYN, using seed from CIANO, Yaqui Valley, Mexico, (1977-78), determined in CIMMYT Wheat Quality Laboratory.

	Variety Number and Name	Test Wt Kg/Hl	PK Minutes	Falling Number	Flour Yield %	Protein % in Flour	Sedimentation (cc)	Mixing time minutes	Mixographic Form	Alveogram P/G	Alveogram W	L O A F Volume	L O A F H2O
1	Hork "S"	80.4	>120	900	58.6	11.2	43	2:35	4	TENACIOUS		765	67.4
2	Butte ND 519	78.0	102	---	60.4	12.7	47	2:00	3	TENACIOUS		780	66.3
3	Nacozari "S"	78.6	70	946	58.2	10.7	40	2:00	3	7.1	359	745	67.0
4	Pavon 76	82.9	>120	903	55.9	11.2	44	2:15	3	7.4	322	800	67.0
5	Ollanta	80.2	43	840	58.1	10.9	29	1:30	1	2.3	168	585	62.5
6	Y50E-Kal[3]	82.3	53	930	55.0	10.2	32	2:00	3	TENACIOUS		690	68.9
7	Pavon "S"	81.6	106	881	64.0	10.5	40	2:20	3	5.8	325	760	67.9
8	Magpie "S"	80.4	>120	1080	59.5	12.2	55	2:00	3	6.8	449	855	65.8
10	Moncho "S"	81.2	>120	427	57.3	11.3	47	2:10	3	6.7	311	700	65.9
11	Pavon "S"	82.5	104	815	54.7	10.9	46	2:00	3	6.6	332	800	65.0
12	Cuckoo "S"	80.5	106	777	49.1	10.9	37	2:20	3	TENACIOUS		710	69.0
13	Siete Cerros	80.0	45	880	58.5	10.2	36	2:05	3	TENACIOUS		690	68.6
14	S331-Nor67	75.7	35	809	63.2	6.0	24	2:10	3	3.6	192	670	58.2
15	Mapache (triticale)	----	---	---	----	----	--	----	-	---	---	---	----
16	Soltane	81.7	>120	903	61.7	10.6	40	2:45	4	8.9	373	745	68.5
17	Tesopaco "S"	80.2	46	1019	64.5	9.8	23	1:20	1	2.1	136	655	59.0
18	Nacozari 76	79.1	46	945	57.9	10.3	32	2:00	3	6.3	244	730	65.9
19	Chiroca "S"	82.3	>120	837	61.3	10.8	45	2:40	3	6.8	383	730	68.2
20	Choi "S"	78.3	42	895	60.9	10.0	29	1:50	2	2.4	174	690	59.5
21	Antizana	80.1	120	943	59.1	12.2	51	3.15	3	5.0	447	800	65.5
22	Jupateco 73	82.1	>120	650	50.1	11.6	41	2:30	3	8.8	430	740	68.7
23	Cocoraque 75	82.2	>120	970	56.7	11.8	42	2:05	3	TENACIOUS		755	67.3
24	Mexicali 75 (durum)	----	---	---	----	----	--	----	-	---	---	---	----
25	Anza	81.0	52	891	59.0	11.0	30	1:40	2	5.0	197	735	64.2
26	Nacozari "S"	80.2	99	997	58.5	10.6	37	1:35	1	5.9	282	765	65.2
27	Condor "S"	80.2	58	775	59.8	10.7	31	1:35	1	4.5	202	745	65.5
28	Naofen	75.5	50	1025	62.8	12.0	26	1:15	1	2.5	153	725	63.0
29	Flicker "S"	79.8	106	662	58.7	9.9	43	1:20	3	4.8	280	820	63.3
30	Abu-Ghraib 3	81.0	76	793	53.3	12.2	37	2:30	3	TENACIOUS		740	70.7
31	Glenlea	79.5	>120	965	62.8	13.0	52	3:45	6	TENACIOUS		830	65.4
32	Dougga	80.4	>120	655	59.7	10.9	49	2:55	4	TENACIOUS		760	65.8
33	Giza 155	80.8	47	474	56.1	11.3	33	1:15	1	2.6	162	790	64.4
34	Torim 73	80.9	92	818	57.9	11.0	51	2:30	3	4.4	362	750	65.0
35	Tanori 71	81.5	>120	844	60.8	11.8	49	1:50	2	3.3	377	855	64.3
36	UP 301xSon64-P162	80.4	>120	1045	58.1	12.8	66	2:30	4	5.2	521	880	65.3
37	Kal-Bb	79.5	66	760	53.0	10.7	44	2:30	3	6.9	329	760	65.9
38	MN 7083	79.2	46	1057	52.8	12.2	31	1:40	1	8.5	278	770	62.2
39	Sonalika	80.8	46	1124	55.9	11.9	28	0:45	1	3.2	138	745	64.4
40	E. Dakuru	79.8	103	821	55.7	12.5	48	2:15	3	4.6	379	810	65.2
41	Cno"S"xNad63-Chr"S"/Son-Kl	80.8	100	962	58.9	12.0	47	2:00	3	6.8	423	835	66.2
42	H-Ra[2]F2	78.4	107	759	59.5	10.1	37	3:00	5	2.7	237	730	59.7
43	Pj-Gb x Nai 66	82.0	45	916	55.4	10.3	35	1:45	2	TENACIOUS		655	67.8
44	Emu "S"	80.6	99	918	58.1	11.8	43	2:30	3	5.7	413	770	64.5
45	IAS 54	79.6	42	861	56.3	10.5	27	1:00	1	3.1	137	690	62.8
46	Bulbul	83.4	41	1060	58.0	10.5	28	1:30	2	7.7	261	655	69.5
47	M.J. INTA	80.8	>120	950	58.9	11.6	41	2:40	4	7.6	388	785	65.7
48	Yecorato "S"	79.3	>120	653	59.8	11.3	56	5:00	8	8.2	484	710	64.9
49	Inia 66	83.6	>120	847	59.8	11.4	51	2:10	3	4.6	386	815	65.2
50	Local Check	82.6	105	878	55.1	10.6	46	2:10	3	6.9	350	820	67.2

SIDS
M.M.ABDEL-HALAIM ET AL

LATITUDE 029 04'N	DATE PLANTED	11/19/77	NITROGEN	APPLIED
LONGITUDE 031 04'E	DATE HARVESTED	5/29/78	PHOSPHORUS	APPLIED
ELEVATION · M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NOT REPORTED. NEGLIGIBLE DISEASE DEVELOPMENT.
LOCAL CHECK: SAKHA 61

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	1000 G.W.
12	CUCKOO"S"	MEXICO	8672	82	96	153	116	0	33
11	PAVON"S"	MEXICO	7917	83	97	155	95	0	37
37	KAL-BB	MEXICO	7794	81	94	154	70	0	38
3	NACOZARI"S"	MEXICO	7717	84	95	152	100	0	42
10	MONCHO"S"	MEXICO	7700	82	110	160	105	0	39
18	NACOZARI76	MEXICO	7655	82	104	157	103	0	40
46	BULBUL	PAKISTAN	7611	84	99	154	120	10	43
22	JUPATECO73	MEXICO	7478	83	100	150	112	0	50
19	CHIROCA"S"	MEXICO	7472	84	105	158	120	0	39
50	LOCAL CHECK		7428	83	91	158	115	0	40
32	DOUCGA	TUNISIA	7372	82	110	153	105	0	37
43	PJ-GB X NA166	PAKISTAN	7372	38	101	155	102	0	41
26	NACOZARI"S"	MEXICO	7322	81	99	155	100	0	41
36	UP301 X SON64-PI62	INDIA/LEB	7311	82	89	146	95	0	45
24	MEXICALI75 (DURUM)	MEXICO	7261	83	87	157	95	60	53
30	ABU-GHRAIB3	IRAQ	7255	42	96	153	105	0	35
4	PAVON 76	MEXICO	7233	83	101	159	105	0	36
48	YECORATO "S"	INIA/MEX	7200	77	101	159	95	0	37
9	MAGPIE"S"	MEXICO ***	7089	82	89	143	98	0	44
34	TORIM73	MEXICO	7067	81	88	146	80	0	42
49	INIA66	MEXICO	7044	82	98	150	115	0	46
13	SIETE CERROS	MEXICO	6972	83	104	160	108	0	39
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	6833	85	92	154	102	0	40
25	ANZA	U.S.A.	6717	82	99	157	105	10	35
7	PAVON"S"	MEXICO	6644	82	109	162	102	0	37
38	MN70F3	U.S.A.	6583	82	100	158	102	40	40
35	TANORI71	MEXICO	6544	83	89	148	105	0	46
23	COCORAQUE75	MEXICO	6544	84	94	152	95	0	40
20	CHOLI"S"	CHILE/MEX	6522	80	105	155	110	0	32
27	CONDOR"S"	AUSTRALIA	6517	82	102	162	95	10	36
47	M.J.INTA	ARGENTINA	6478	82	102	162	110	30	43
44	EMU"S"	MEXICO	6478	83	99	152	105	70	40
39	SONALIKA	INDIA	6450	81	98	155	105	20	56
42	J-RA(2)F(2)	INIA/MEX	6444	80	102	165	105	60	42
15	MAPACHE (TRITICALE)	MEXICO	6250	70	94	152	120	0	41
21	ANTIZANA	ECUADOR	6183	83	89	156	112	0	48
1	HORK"S"	MEXICO	6128	83	100	156	105	0	32
14	S331-NORG7	INDIA/LEB	5955	73	109	165	115	0	37
16	SOLTANE	TUNISIA	5600	82	102	157	108	20	47
17	TESOPACO"S"	MEXICO	5544	81	92	152	115	60	41
45	IAS54	BRAZIL	5400	77	93	154	102	80	38
33	GIZA155	EGYPT	5256	80	92	152	125	40	43
28	NAOPEN	CHILE	5161	80	110	165	105	0	41
29	FLICKER"S"	MEXICO	5056	81	109	164	100	29	44
6	Y50E-KAL(3)	MEXICO	4900	83	98	156	112	0	43
2	BUTTE-ND519	U.S.A.	45[illegible]9	84	96	150	135	70	40
40	F.DAKARU	URUGUAY	4322	79	99	155	125	80	42
31	GLENLEA	CANADA	3033	81	105	155	135	40	46
5	OLLANTA	PERU	2917	83	86	142	122	0	42
		GRAND MEAN	6507.0	79.7	98.3	155.1	106.9	14.7	41.2
		STANDARD ERROR OF GRAND MEAN	64.8						
		COEFFICIENT OF VARIATION AS PC	12.1						
		LSD VARIETY MEANS 5 PC	1273.4						

CORRELATIONS

YIELD	KG/HA						
TEST	WT	-0.08					
FLOW	DAYS	0.01	-0.05				
MAT	DAYS	0.04	-0.02	0.71			
PLNT	HT	-0.53	0.03	0.12	-0.04		
LODG	%	-0.45	0.09	-0.10	0.05	0.29	
1000	G.W.	-0.16	0.16	-0.34	-0.21	0.12	0.18

SAKHA
CEREAL STAFF

LATITUDE	030 49'N	DATE PLANTED	12/ 1/77	NITROGEN	APPLIED
LONGITUDE	030 51'E	DATE HARVESTED	5/23/78	PHOSPHORUS	APPLIED
ELEVATION	0000 M.ABOVE S.L.	AMOUNT OF MOISTURE	607 MM	POTASSIUM	--

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: SAKHA 8

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.
4	PAVON 76	MEXICO	6422	82	98	153	0	90	0	44
11	PAVON"S"	MEXICO	6055	83	102	153	0	90	0	46
25	ANZA	U.S.A.	5872	81	104	155	10S	85	0	40
3	NACOZARI"S"	MEXICO	5577	80	97	149	20S	80	0	42
7	PAVON"S"	MEXICO	5472	81	103	153	0	110	0	41
10	MONCHO"S"	MEXICO	5388	80	100	152	0	90	0	47
42	H-PA(2)F(2)	INIA/MEX ***	5288	78	99	153	10S	90	0	51
47	M.J.INTA	ARGENTINA	5277	81	96	149	0	95	0	47
26	NACOZARI"S"	MEXICO	5222	80	99	149	30S	90	0	44
30	ABU-GHRAIB3	IRAQ	5199	82	95	146	10S	85	5	39
6	Y50E-KAL(3)	MEXICO	5166	79	102	154	70S	105	0	40
1	HORK"S"	MEXICO	5166	81	100	150	0	90	0	37
27	CONDOR"S"	AUSTRALIA	5116	80	100	154	TR-MS	80	0	43
37	KAL-BB	MEXICO	5033	79	97	151	0	70	0	40
36	UP301 X SON64-PI62	INDIA/LEB	5000	82	96	146	0	85	0	46
34	TORIM73	MEXICO	4980	83	97	145	5MS	65	0	47
20	CHOLI"S"	CHILE/MEX	4983	80	103	149	5MS	80	0	41
29	[illegible]"S"	MEXICO	4972	79	106	155	20S	90	0	45
[illegible]	SOLTANE	TUNISIA	4966	82	96	145	0	95	5	48
[illegible]	[illegible]BUL	PAKISTAN	4888	82	98	153	10S	105	0	41
	[illegible]-NOR67	INDIA/LEB	4883	76	106	151	0	115	0	44
18	NACOZARI76	MEXICO	4877	80	102	152	10S	85	0	44
44	EMU"S"	MEXICO	4877	81	97	152	0	90	5	42
17	TESOPACO"S"	MEXICO	4872	80	101	151	0	105	0	48
50	LOCAL CHECK		4855	80	100	153	0	95	0	44
15	MAPACHE (TRITICALE)	MEXICO	4805	66	98	146	0	110	0	43
22	JUPATECO73	MEXICO	4800	82	94	146	TR-R	85	0	45
21	ANTIZANA	ECUADOR	4750	82	93	144	10S	90	0	53
43	PJ-GB X NAI66	PAKISTAN	4750	81	99	152	90S	90	0	46
9	MAGPIE"S"	MEXICO	4744	81	104	141	5MS	90	0	50
12	CUCKOO"S"	MEXICO	4677	82	97	152	10S	95	0	36
24	MEXICALI75 (DURUM)	MEXICO	4611	78	95	147	10MS-S	85	0	50
32	DOUGGA	TUNISIA	4605	81	106	155	0	95	0	44
13	SIETE CERROS	MEXICO	4588	79	101	157	60S	105	0	38
23	COCORAQUE75	MEXICO	4577	82	92	140	0	75	0	40
19	CHIROCA"S"	MEXICO	4538	82	99	154	0	105	0	42
28	NAOFEN	CHILE	4505	78	110	155	5S	95	0	45
48	YECORATO "S"	INIA/MEX	4500	81	97	151	0	75	0	40
35	TANORI71	MEXICO	4500	82	96	143	TR-MS	90	5	46
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	4477	81	96	146	5MS-S	85	0	44
38	MN7083	U.S.A.	4433	80	97	149	0	105	20	42
45	IAS54	BRAZIL	4344	80	99	149	5S	95	5	41
49	INIA66	MEXICO	4327	82	94	143	0	95	10	40
40	E.DAKARU	URUGUAY	4080	80	104	154	10S	110	10	39
33	GIZA155	EGYPT	4066	81	98	154	5S	115	20	50
5	OLLANTA	PERU	4000	80	92	145	50S	110	80	43
39	SONALIKA	INDIA	3800	80	94	142	TR-MS	95	50	59
31	GLENLEA	CANADA	3683	79	106	153	0	120	10	45
2	BUTTE-ND519	U.S.A.	2933	81	97	150	TR-MS	125	20	38
	GRAND MEAN		4806.4	80.3	99.0	149.0	9.4	93.9	5.0	44.5

STANDARD ERROR OF GRAND MEAN 47.3
COEFFICIENT OF VARIATION AS PC 11.9
LSD VARIETY MEANS 5 PC 929.0

CORRELATIONS

YIELD KG/HA								
TEST	WT	0.08						
FLOW	DAYS	0.14	-0.23					
MAT	DAYS	0.21	-0.08	0.65				
LEAF	RUST	-0.01	-0.05	0.02	0.20			
PLNT	HT	-0.46	-0.29	0.25	0.28	0.10		
LODG	%	-0.50	0.01	-0.33	-0.27	0.16	0.35	
1000	G.W.	-0.06	-0.02	-0.22	-0.42	-0.03	-0.10	0.15

MJORO
NATIONAL P.B.S.
LATITUDE 000 00'S
LONGITUDE 036 00'E
ELEVATION 2165 M.ABOVE S.L.

DATE PLANTED 6/ 1/78
DATE HARVESTED 10/28/78
AMOUNT OF MOISTURE 620 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION POOR.
FIRST THREE WEEKS OF JUNE WERE VERY DRY. LATER COLD.
HAND WEEDING.
LOCAL CHECK: K.BATA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	STRP RT.L	STRP RT.H	LEAF RUST	STEM RUST
15	MAPACHE (TRITICALE)	MEXICO	4461	TR	0	0	0
4	PAVON 76	MEXICO ***	3550	40MS	18	0	----
26	NACOZARI"S"	MEXICO	3532	10MR	5	15MR-MS	30S-10MR
44	EMU"S"	MEXICO	3341	10MR	0	0	50S
3	NACOZARI"S"	MEXICO	3324	20MR	5	5MR	TS-50S
18	NACOZARI76	MEXICO	3324	5R	13	TS	10S
24	MEXICALI75 (DURUM)	MEXICO	3048	30MS	5	0	TS
10	MONCHO"S"	MEXICO	2906	40MS	15	0	0
21	ANTIZANA	ECUADOR	2728	20MR-S	10	TS	50S
19	CHIROCA"S"	MEXICO	2648	40S	10	0	TS
11	PAVON"S"	MEXICO	2639	40MS	5	0	0
31	GLENLEA	CANADA	2391	20MR	0	0	50S
7	PAVON"S"	MEXICO	2346	20MR	0	0	0
28	NAOPEN	CHILE	2164	TR	0	TMR	50S
39	SONALIKA	INDIA	2119	30MS-S	1	---	40S
50	LOCAL CHECK		2000	30MS-S	-	---	0
30	ABU-GHRAIB3	IRAQ	1973	70S	50	30MS-S	10S
14	S331-NOR67	INDIA/LEB	1911	30S	30	0	5S
34	TORIM73	MEXICO	1880	20MS	1	---	10MS
5	OLLANTA	PERU	1800	TR	0	80S	TMR
23	COCORAQUE75	MEXICO	1777	50S	10	0	TS
12	CUCKOO"S"	MEXICO	1706	70S	50	30S	30S
6	Y50E-KAL(3)	MEXICO	1697	60S	20	---	5S
27	CONDOR"S"	AUSTRALIA	1662	40MS	10	0	10S
2	BUTTE-WD519	U.S.A.	1622	50S	60	---	30MS-S
37	KAL-BB	MEXICO	1600	30S	-	---	10S
33	GIZA155	EGYPT	1506	40MS	1	TR	10MS
16	SOLTANE	TUNISIA	1466	90S	35	---	TS
42	H-RA(2)F(2)	INIA/MEX	1449	30MS-S	-	---	10S
36	UP301 X SON64-PI62	INDIA/LEB	1444	40S	60	---	5MS
41	CNO"S" X NAD63-CHR"S"/SON-X1	ARGENTINA	1413	30S	50	---	30S
32	DOUGGA	TUNISIA	1382	40S	20	0	0
25	ANZA	U.S.A.	1377	30S	8	0	60S
38	MN7083	U.S.A.	1342	30S	70	---	TMS
29	FLICKER"S"	MEXICO	1337	80S	50	---	0
47	M.J.INTA	ARGENTINA	1293	20S	30	---	20S
9	MAGPIE"S"	MEXICO	1226	70S	40	0	40S
45	IAS54	BRAZIL	1226	30S	60	---	80S
35	TANORI71	MEXICO	1209	40S	16	---	20MS
1	HORK"S"	MEXICO	1200	70S	55	---	TS
48	YECORATO "S"	INIA/MEX	1106	20S	-	---	30S
49	INIA66	MEXICO	1089	30S	-	---	20MS
46	BULBUL	PAKISTAN	1000	40S	40	---	30S
17	TESOPACO"S"	MEXICO	955	90S	75	---	TS
40	E.DAKARU	URUGUAY	933	30S	40	---	--
22	JUPATECO73	MEXICO	818	90S	50	---	10MS
43	PJ-GB X NAI66	PAKISTAN	760	40S	-	---	TMS
13	SIETE CERROS	MEXICO	533	80S	70	---	TS
20	CHOLI"S"	CHILE/MEX	458	90S	10	---	100S
		GRAND MEAN	1850.6	36.2	25.6	5.6	19.0

STANDARD ERROR OF GRAND MEAN 32.5
COEFFICIENT OF VARIATION AS PC 21.3
LSD VARIETY MEANS 5 PC 638.4

CORRELATIONS

	YIELD KG/HA			
STRP RT.L	-0.65			
STRP RT.H	-0.61	0.77		
LEAF RUST	-0.17	0.06	0.10	
STEM RUST	-0.04	-0.26	-0.20	-0.08

TAJOURA
S.M.EL SEBOI
LATITUDE 032 53'N
LONGITUDE 013 24'E
ELEVATION 0011 M.ABOVE S.L.

DATE PLANTED 11/ 7/77
DATE HARVESTED 4/20/78
AMOUNT OF MOISTURE 750 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: SIDI MISRY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
10	MONCHO"S"	MEXICO	3476	81	96	151	85	48
14	S331-NOR67	INDIA/LEB	3028	77	103	153	82	42
26	NACOZARI"S"	MEXICO	2823	81	89	147	75	42
15	MAPACHE (TRITICALE)	MEXICO	2790	68	84	149	80	46
37	KAL-BB	MEXICO	2695	79	91	150	63	40
46	BULBUL	PAKISTAN	2657	82	91	153	78	44
47	M.J.INTA	ARGENTINA	2647	79	98	151	85	48
9	MAGPIE"S"	MEXICO	2628	77	87	147	72	45
3	NACOZARI"S"	MEXICO	2590	80	90	148	70	42
33	GIZA155	EGYPT	2552	79	96	153	80	44
48	YECORATO "S"	INIA/MEX	2543	81	88	149	68	42
25	ANZA	U.S.A. ***	2533	81	102	153	68	39
1	HORK"S"	MEXICO	2495	79	95	153	73	38
29	FLICKER"S"	MEXICO	2486	77	101	151	75	44
6	Y50E-KAL(3)	MEXICO	2476	80	99	153	77	43
12	CUCKOO"S"	MEXICO	2428	80	85	149	75	39
17	TESOPACO"S"	MEXICO	2428	77	88	148	82	46
40	E.DAKARU	URUGUAY	2419	78	102	155	85	40
4	PAVON 76	MEXICO	2419	83	98	151	75	41
42	H-RA(2)F(2)	INIA/MEX	2400	76	105	149	78	48
39	SONALIKA	INDIA	2400	80	72	138	82	52
27	CONDOR"S"	AUSTRALIA	2390	81	100	153	70	41
13	SIETE CERROS	MEXICO	2381	80	96	152	77	38
11	PAVON"S"	MEXICO	2324	82	96	151	77	43
30	ABU-GHRAIB3	IRAQ	2257	79	84	147	70	36
22	JUPATECO73	MEXICO	2248	81	87	147	75	41
21	ANTIZANA	ECUADOR	2209	80	82	147	70	50
18	NACOZARI76	MEXICO	2200	80	87	147	75	44
34	TORIM73	MEXICO	2133	81	84	147	67	43
20	CHOLI"S"	CHILE/MEX	2105	81	96	151	73	42
32	DOUGGA	TUNISIA	2095	82	99	151	70	40
43	PJ-GB X NAI66	PAKISTAN	2095	80	88	151	73	42
49	INIA66	MEXICO	2048	81	84	148	72	47
50	LOCAL CHECK		2019	80	97	153	75	40
35	TANORI71	MEXICO	2000	80	82	147	75	45
36	UP301 X SON64-PI62	INDIA/LEB	2000	79	82	148	77	42
44	EMU"S"	MEXICO	1981	82	96	149	77	47
7	PAVON"S"	MEXICO	1924	81	103	151	77	40
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	1914	78	93	151	70	44
45	IAS54	BRAZIL	1886	76	100	151	85	40
19	CHIROCA"S"	MEXICO	1838	79	88	150	72	30
2	BUTTE-ND519	U.S.A.	1838	78	88	152	77	39
16	SOLTANE	TUNISIA	1838	81	92	145	78	50
38	MN7083	U.S.A.	1838	82	92	149	72	45
23	COCORAQUE75	MEXICO	1676	79	84	146	72	45
5	OLLANTA	PERU	1648	78	82	147	75	39
28	NAOPEN	CHILE	1619	76	104	156	82	40
31	GLENLEA	CANADA	1457	77	106	154	87	48
24	MEXICALI75 (DURUM)	MEXICO	1229	76	84	149	70	52
		GRAND MEAN	2247.1	79.1	92.1	149.9	75.4	43.1
		STANDARD ERROR OF GRAND MEAN	40.0	0.2			0.4	0.2
		COEFFICIENT OF VARIATION AS PC	21.6	2.7			6.1	5.5
		LSD VARIETY MEANS 5 PC	786.3	3.4			7.5	3.9

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT
TEST WT	0.04				
FLOW DAYS	0.11	0.00			
MAT DAYS	0.03	-0.07	0.81		
PLNT HT	0.11	-0.32	0.33	0.23	
1000 G.W.	-0.07	-0.12	-0.23	-0.41	0.24

GWEBI
C.J.J.BADENHORST ET AL
LATITUDE 017 48'S
LONGITUDE 031 15'E
ELEVATION 1486 M.ABOVE S.L.

DATE PLANTED --/--/--
DATE HARVESTED 10/21/78
AMOUNT OF MOISTURE 602 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: S162.30

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	LODG %
25	ANZA	U.S.A.	8887	78	139	95	60
18	NACOZARI76	MEXICO	8875	74	130	102	90
50	LOCAL CHECK		8818	72	131	75	-
4	PAVON 76	MEXICO	8371	77	127	102	97
26	NACOZARI"S"	MEXICO	8336	71	125	98	100
11	PAVON"S"	MEXICO	8267	76	130	108	80
3	NACOZARI"S"	MEXICO	8222	73	125	103	-
24	MEXICALI75 (DURUM)	MEXICO	8038	68	128	97	100
42	H-RA(2)F(2)	INIA/MEX	8027	77	131	105	50
27	CONDOR"S"	AUSTRALIA	7878	77	129	87	100
15	MAPACHE (TRITICALE)	MEXICO	7832	71	128	122	70
48	YECORATO "S"	INIA/MEX	7820	73	130	92	43
35	TANORI71	MEXICO	7729	68	124	102	90
17	TESOPACO"S"	MEXICO	7625	74	130	112	97
29	FLICKER"S"	MEXICO	7602	81	138	108	93
46	BULBUL	PAKISTAN	7602	74	130	115	100
34	TORIM73	MEXICO ***	7476	69	124	83	-
9	MAGPIE"S"	MEXICO	7453	72	131	98	90
7	PAVON"S"	MEXICO	7442	83	133	108	100
6	YSUE-KAL(3)	MEXICO	7419	75	125	112	35
1	HORK"S"	MEXICO	7396	78	131	108	63
36	UP301 X SON64-PI62	INDIA/LEB	7350	68	131	100	100
49	INIA66	MEXICO	7327	68	129	105	45
10	MONCHO"S"	MEXICO	7270	79	130	112	10
12	CUCKOO"S"	MEXICO	7258	73	125	103	-
13	SIETE CERROS	MEXICO	7213	76	126	102	43
22	JUPATECO73	MEXICO	7201	76	130	107	100
43	PJ-GB X NAI66	PAKISTAN	7098	76	131	100	45
37	KAL-BB	MEXICO	6972	74	130	75	-
32	DOUGGA	TUNISIA	6949	79	130	103	-
44	EMU"S"	MEXICO	6937	77	133	100	97
41	CNO"S" Y NAD63-CHR"S"/SON-K1	ARGENTINA	6880	70	130	100	20
14	S331-NC 67	INDIA/LEB	6869	78	133	122	100
30	ABU-GHRAIB3	IRAQ	6765	73	126	103	100
39	SONALIKA	INDIA	6765	67	128	110	70
19	CHIROCA"S"	MEXICO	6731	73	127	115	30
23	COCORAQUE75	MEXICO	6719	72	130	98	00
5	OLLANTA	PERU	6662	67	125	122	100
16	SOLTANE	TUNISIA	6616	76	130	112	90
20	CHOLI"S"	CHILE/MEX	6605	75	131	102	10
28	NAOPEN	CHILE	6421	86	136	110	85
47	M.J.INTA	ARGENTINA	6375	79	133	110	100
45	IAS54	BRAZIL	6318	76	131	117	100
38	MN7883	U.S.A.	6112	72	130	98	100
21	ANTIZANA	ECUADOR	6009	69	132	107	100
40	E.DAKARU	URUGUAY	5710	75	130	125	90
33	GIZA155	EGYPT	5665	73	134	123	100
31	GLENLEA	CANADA	4873	77	126	133	97
2	BUTTE-ND519	U.S.A.	4334	72	125	120	93
		GRAND MEAN	7165.7	74.2	129.6	105.4	81.2
		STANDARD ERROR OF GRAND MEAN	55.1			0.5	
		COEFFICIENT OF VARIATION AS PC	9.3			5.2	
		LSD VARIETY MEANS 5 PC	1083.7			8.9	

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	-0.01			
MAT	DAYS	0.06	0.54		
PLNT	HT	-0.54	0.15	-0.02	
LODG	%	-0.10	0.00	0.07	0.12

KHASHM ELGIRBA
DAFALLA
LATITUDE 015 08'N
LONGITUDE 035 45'E
ELEVATION 0400 M.ABOVE S.L.

DATE PLANTED 10/31/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS --
POTASSIUM --

NORMAL SOWING TIME. DRY CONDITIONS OF SOIL AT SOWING. GOOD GERMINATION. THE COOL PERIOD WAS LONGER THAN USUAL. WEED PROBLEMS. CHEMICAL CONTROL OF APHIDS. LOCAL CHECK: CHENAB 70.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
25	ANZA	U.S.A.	3267	50	98	71
11	PAVON"S"	MEXICO	3200	51	97	77
17	TESOPACO"S"	MEXICO	3167	51	100	85
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3133	51	101	73
4	PAVON 76	MEXICO	3067	52	96	77
27	CONDOR"S"	AUSTRALIA	3033	52	102	67
22	JUPATECO73	MEXICO	2967	49	100	73
50	LOCAL CHECK		2967	54	101	80
28	NAOPEW	CHILE	2933	63	114	77
23	COCORAQUE75	MEXICO	2900	50	100	75
16	SOLTANE	TUNISIA	2867	52	102	86
33	GIZA155	EGYPT	2867	56	110	97
49	INIA66	MEXICO	2833	43	87	67
24	MEXICALI75 (DURUM)	MEXICO	2800	49	98	69
9	MAGPIE"S"	MEXICO	2767	51	98	75
19	CHIROCA"S"	MEXICO	2767	47	96	73
30	ABU-GHRAIB3	IRAQ	2733	46	89	70
47	M.J.INTA	ARGENTINA	2733	59	117	90
1	HORK"S"	MEXICO	2700	49	100	83
3	NACOZARI"S"	MEXICO	2700	45	91	67
10	MONCHO"S"	MEXICO	2667	57	104	86
29	FLICKER"S"	MEXICO ***	2600	57	109	71
44	EMU"S"	MEXICO	2600	48	95	65
45	IAS54	BRAZIL	2600	57	99	82
7	PAVON"S"	MEXICO	2567	65	110	81
2	BUTTE-ND519	U.S.A.	2567	53	104	86
39	SONALIKA	INDIA	2533	43	92	67
26	NACOZARI"S"	MEXICO	2500	45	91	69
42	H-RA(2)F(2)	INIA/MEX	2467	56	106	81
14	S331-NOR67	INDIA/LEB	2433	49	98	78
32	DOUGGA	TUNISIA	2433	49	96	64
21	ANTIZANA	ECUADOR	2433	46	96	66
38	MN7083	U.S.A.	2433	47	91	65
46	BULBUL	PAKISTAN	2400	44	90	67
35	TANORI71	MEXICO	2400	43	90	67
40	E.DAKARU	URUGUAY	2400	57	104	88
31	GLENLEA	CANADA	2400	56	103	96
43	PJ-GB X NAI66	PAKISTAN	2367	46	93	64
48	YECORATO "S"	INIA/MEX	2367	53	97	59
13	SIETE CERROS	MEXICO	2333	44	99	67
37	KAL-BB	MEXICO	2300	45	93	47
12	CUCKOO"S"	MEXICO	2300	45	92	76
18	NACOZARI76	MEXICO	2267	43	89	64
6	YS0E-KAL(3)	MEXICO	2267	46	95	71
20	CHOLI"S"	CHILE/MEX	2233	50	101	65
36	UP301 X SON64-PI62	INDIA/LEB	2167	42	88	58
15	MAPACHE (TRITICALE)	MEXICO	2133	44	97	74
34	TORIM73	MEXICO	2133	43	86	50
5	OLLANTA	PERU	1967	44	93	76
		GRAND MEAN	2605.4	49.8	97.9	73.1
		STANDARD ERROR OF GRAND MEAN	25.9			0.3
		COEFFICIENT OF VARIATION AS PC	12.0			5.2
		LSD VARIETY MEANS 5 PC	508.4			6.2

CORRELATIONS

YIELD	KG/HA			
FLOW	DAYS	0.40		
MAT	DAYS	[illegible].35	0.88	
PLNT	HT	[illegible].36	0.64	0.67

LYAMUNGU
AGRIC. R.S.

LATITUDE	3 14'S	DATE PLANTED	7/20/78	NITROGEN	APPLIED
LONGITUDE	37 53'E	DATE HARVESTED	11/17/78	PHOSPHORUS	APPLIED
ELEVATION	4210 M.ABOVE S.L.	AMOUNT OF MOISTURE	81 MM	POTASSIUM	APPLIED

LATE SOWING CAUSED BY CONTINUOUS RAIN.
SOIL MOIST AT SOWING. GERMINATION GOOD.
SOME APHID DAMAGE.
LOCAL CHECK: TROPHY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.L	STEM RUST	PLNT HT	POWD %
33	GIZA155	EGYPT	4049	67	101	0	35S	109	0
24	MEXICALI75 (DURUM)	MEXICO	3767	61	96	0	0	79	0
26	NACOZARI"S"	MEXICO	3593	63	96	0	5R	81	37
10	MONCHO"S"	MEXICO	3548	67	99	5	0	86	10
27	CONDOR"S"	AUSTRALIA	3346	67	101	3	20MS	73	4
21	ANTIZANA	ECUADOR	3247	60	98	0	5R	83	15
3	NACOZARI"S"	MEXICO ***	3078	60	94	2	0	82	33
44	ENU"S"	MEXICO	3039	67	98	7	15MS-S	77	7
49	INIA66	MEXICO	2981	60	98	40	0	87	0
34	TORIM73	MEXICO	2934	60	94	13	15S	62	7
50	LOCAL CHECK		2928	64	98	17	0	113	0
18	NACOZARI76	MEXICO	2875	63	98	27	0	84	15
15	MAPACHE (TRITICALE)	MEXICO	2838	67	98	0	0	104	0
6	Y50E-KAL(3)	MEXICO	2796	66	98	10	0	83	0
23	COCORAQUE75	MEXICO	2793	67	99	8	0	77	4
38	MN7083	U.S.A.	2787	60	96	18	0	84	0
2	BUTTE=ND519	U.S.A.	2762	60	98	10	5MS	109	0
40	E.DAKARU	URUGUAY	2729	64	103	23	15R	106	0
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2686	60	98	20	25S	81	7
11	PAVON"S"	MEXICO	2679	67	98	10	0	87	0
43	PJ-GB X NAI66	PAKISTAN	2647	67	98	30	0	78	26
19	CHIROCA"S"	MEXICO	2603	63	98	18	0	88	15
7	PAVON"S"	MEXICO	2592	72	103	22	0	79	0
48	YECORATO "S"	INIA/MEX	2547	60	94	23	10S	65	7
12	CUCKOO"S"	MEXICO	2531	63	96	10	0	85	15
42	H-RA(2)F(2)	INIA/MEX	2450	71	104	3	30S	87	33
4	PAVON 76	MEXICO	2449	63	98	20	0	86	0
20	CHOLI"S"	CHILE/MEX	2433	63	98	0	15S	78	48
37	KAL-BB	MEXICO	2372	63	94	27	0	61	11
29	FLICKER"S"	MEXICO	2320	74	104	73	25MS	70	0
32	DOUGGA	TUNISIA	2266	69	99	7	0	87	4
1	HORK"S"	MEXICO	2237	67	103	32	0	81	0
35	TANORI7[illegible]	MEXICO	2227	59	94	43	0	83	22
14	S331-NOR67	INDIA/LEB	2165	67	99	5	TS	86	7
31	GLENLEA	CANADA	2140	67	101	2	30MS-S	111	7
22	JUPATECO73	MEXICO	2127	64	99	43	0	85	26
16	SOLTANE	TUNISIA	2115	63	104	33	0	86	40
9	MAGPIE"S"	MEXICO	2108	65	99	30	10S	73	11
36	UP301 X SON64-PI62	INDIA/LEB	2052	56	94	35	5S	77	0
39	SONALIKA	INDIA	2034	57	98	47	0	86	0
45	IAS54	BRAZIL	2001	67	99	27	70S	91	37
28	NAOPEN	CHILE	1998	67	101	0	60S	81	15
17	TESOPACO"S"	MEXICO	1992	65	99	43	0	88	37
25	ANZA	U.S.A.	1978	65	101	10	45S	74	0
30	ABU-GHRAIB3	IRAQ	1956	65	101	5	0	87	15
5	OLLANTA	PERU	1752	59	94	5	0	104	7
46	BULBUL	PAKISTAN	1730	60	94	53	60S	94	30
13	SIETE CERROS	MEXICO	1688	63	98	67	0	80	15
47	M.J.INTA	ARGENTINA	1326	71	104	75	15MS-S	70	0
		GRAND MEAN	2536.5	64.2	98.5	20.5	7.2	85.0	11.7
		STANDARD ERROR OF GRAND MEAN	39.8					0.4	
		COEFFICIENT OF VARIATION AS PC	19.0					5.2	
		LSD VARIETY MEANS 5 PC	781.7					7.1	

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	-0.04					
MAT	DAYS	-0.14	0.74				
STRP	RT.L	-0.56	0.00	0.12			
STEM	RUST	-0.25	0.10	0.12	-0.09		
PLNT	HT	0.06	0.02	0.18	-0.18	0.01	
POWD	%	-0.13	-0.06	-0.08	-0.00	0.20	-0.09

BEJA
ACPP/INRAT

LATITUDE	036 44'N	DATE PLANTED	11/18/77	NITROGEN	APPLIED
LONGITUDE	009 08'E	DATE HARVESTED	6/17/78	PHOSPHORUS	APPLIED
ELEVATION	0150 M.ABOVE S.L.	AMOUNT OF MOISTURE	589 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION % NOT REPORTED.
RAINFALL ADEQUATE EXCEPT FROM DECEMBER TO JANUARY.
SLIGHT DISEASE INCIDENCE. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: CARTHAGE 74

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
20	CHOLI"S"	CHILE/MEX	7672	89	95
25	ANZA	U.S.A.	7503	91	85
11	PAVON"S"	MEXICO	7535	89	90
4	PAVON 76	MEXICO	7487	89	95
12	CUCKOO"S"	MEXICO	7433	82	90
26	NACOZARI"S"	MEXICO	7396	88	95
27	CONDOR"S"	AUSTRALIA	7393	95	85
32	DOUGGA	TUNISIA	7343	91	95
15	MAPACHE (TRITICALE)	MEXICO	7321	81	100
7	PAVON"S"	MEXICO	7315	95	100
17	TESOPACO"S"	MEXICO	7200	86	100
3	NACOZARI"S"	MEXICO	7133	87	95
14	S331-NOR67	INDIA/LEB	7081	94	110
29	FLICKER"S"	MEXICO	7064	89	90
30	ABU-GHRAIB3	IRAQ	7063	83	90
24	MEXICALI75 (DURUM)	MEXICO	6995	81	90
18	NACOZARI76	MEXICO	6948	88	90
46	BULBUL	PAKISTAN	6933	91	105
42	H-RA(2)F(2)	INIA/MEX	6932	87	90
39	SONALIKA	INDIA	6880	75	85
10	MONCHO"S"	MEXICO ***	6853	90	95
34	TORIM73	MEXICO	6796	80	75
13	SIETE CERROS	MEXICO	6724	95	95
37	KAL-BB	MEXICO	6723	90	70
43	PJ-GB X NAI66	PAKISTAN	6716	88	90
44	EMU"S"	MEXICO	6604	88	90
1	HORK"S"	MEXICO	6525	87	95
48	YECORATO "S"	INIA/MEX	6515	87	85
19	CHIROCA"S"	MEXICO	6500	88	90
28	NAOFEN	CHILE	6467	96	100
50	LOCAL CHECK		6424	87	90
21	ANTIZANA	ECUADOR	6421	80	85
35	TANORI71	MEXICO	6365	80	85
36	UP301 X SON64-PI62	INDIA/LEB	6319	81	85
9	MAGPIE"S"	MEXICO	6259	77	80
22	JUPATECO73	MEXICO	6225	81	90
38	MN7083	U.S.A.	6036	88	95
16	SOLTANE	TUNISIA	5927	86	100
41	CNO"S" X MAD63-CHR"S"/SON-K1	ARGENTINA	5833	86	85
6	Y50E-KAL(3)	MEXICO	5763	96	100
47	M.J.INTA	ARGENTINA	5688	88	100
5	OLLANTA	PERU	5656	81	95
49	INIA66	MEXICO	5375	75	90
33	GIZA155	EGYPT	5367	90	105
40	E.DAKARU	URUGUAY	5237	90	100
2	BUTTE-ND519	U.S.A.	5164	89	100
31	GLENLEA	CANADA	5100	96	115
45	IAS54	BRAZIL	4861	87	105
23	COCORAQUE75	MEXICO	4680	76	80
		GRAND MEAN	6527.1	86.8	92.8
		STANDARD ERROR OF GRAND MEAN	32.7		
		COEFFICIENT OF VARIATION AS PC	6.1		
		LSD VARIETY MEANS 5 PC	642.9		

CORRELATIONS

	YIELD KG/HA	FLOW DAYS	PLNT HT
FLOW DAYS	0.16		
PLNT HT	-0.19	0.51	

ISHURDI
CEREAL STAFF
LATITUDE 024 02'N
LONGITUDE 089 00'E
ELEVATION 0007 M.ABOVE S.L.

DATE PLANTED 11/21/77
DATE HARVESTED 3/30/78
AMOUNT OF MOISTURE 529 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: SONALIKA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
46	BULBUL	PAKISTAN	6296	65	117	10MR	86
4	PAVON 76	MEXICO	6259	72	118	0	92
26	NACOZARI"S"	MEXICO	6185	66	115	50MS	80
3	NACOZARI"S"	MEXICO	5925	69	116	60MS	83
1	HORK"S"	MEXICO	5796	71	115	0	83
11	PAVON"S"	MEXICO	5666	73	116	P	91
18	NACOZARI76	MEXICO	5592	68	115	TMR	76
17	TESOPACO"S"	MEXICO	5351	71	115	0	100
22	JUPATECO73	MEXICO	5259	72	117	0	86
24	MEXICALI75 (DURUM)	MEXICO	5222	67	119	TMR	77
27	CONDOR"S"	AUSTRALIA	5203	72	118	0	79
7	PAVON"S"	MEXICO	5185	83	122	0	94
50	LOCAL CHECK		5185	61	112	40MS	86
23	COCORAQUE75	MEXICO	5074	70	115	0	82
45	IAS54	BRAZIL	5037	72	116	40S	97
43	PJ-GB X NAI66	PAKISTAN	5037	70	115	60S	86
36	UP301 X SON64-PI62	INDIA/LEB ***	4981	62	113	0	90
38	MN7083	U.S.A.	4888	70	116	0	81
47	M.J.INTA	ARGENTINA	4847	80	122	0	101
42	H-RA(2)F(2)	INIA/MEX	4759	78	117	0	88
29	FLICKER"S"	MEXICO	4666	81	121	10MR	83
49	INIA66	MEXICO	4629	64	115	5MR	84
16	SOLTANE	TUNISIA	4629	71	116	0	98
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	4592	70	120	5MR	74
25	ANZA	U.S.A.	4592	73	121	20MR	82
9	MAGPIE"S"	MEXICO	4555	73	116	0	78
30	ABU-GHRAIB3	IRAQ	4555	70	118	5MR	77
21	ANTIZANA	ECUADOR	4537	66	114	10MR	83
40	E.DAKARU	URUGUAY	4500	81	124	10MS	115
13	SIETE CERROS	MEXICO	4481	70	115	80S	87
6	Y50E-KAL(3)	MEXICO	4259	73	120	80S	88
37	KAL-BB	MEXICO	4259	71	118	0	67
46	YECORATO "S"	INIA/MEX	4240	71	116	0	71
12	CUCKO [illegible]	MEXICO	4222	70	114	20MS	87
35	TANORI71	MEXICO	4203	63	117	0	79
10	MONCHO"S"	MEXICO	4203	80	120	0	88
33	GIZA155	EGYPT	4111	71	123	0	119
2	BUTTE-ND519	U.S.A.	4092	71	118	0	117
19	CHIROCA"S"	MEXICO	4018	70	117	0	81
15	MAPACHE (TRITICALE)	MEXICO	3963	69	118	0	99
32	DOUGGA	TUNISIA	3926	71	117	30MS	81
5	OLLANTA	PERU	3926	67	113	30MS	101
20	CHOLI"S"	CHILE/MEX	3685	71	117	10MR	80
39	SONALIKA	INDIA	3685	63	118	TMR	85
31	GLENLEA	CANADA	3555	74	121	0	113
34	TORIM73	MEXICO	3481	62	112	0	67
44	EMU"S"	MEXICO	3166	72	117	0	80
14	S331-NOR67	INDIA/LEB	3092	75	118	0	83
28	NAOFEN	CHILE	2592	82	123	20MS	83
		GRAND MEAN	4615.5	71.0	117.2	9.2	86.9
		STANDARD ERROR OF GRAND MEAN	52.7				0.3
		COEFFICIENT OF VARIATION AS PC	13.8				4.2
		LSD VARIETY MEANS 5 PC	1034.9				6.0

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	-0.16			
MAT	DAYS	-0.23	0.72		
LEAF	RUST	0.12	-0.10	-0.14	
PLNT	HT	-0.04	0.32	0.38	0.05

NEW DELHI IARS
CEREAL STAFF
LATITUDE 028 38'N
LONGITUDE 077 16'E
ELEVATION 0022 M.ABOVE S.L.

DATE PLANTED 11/25/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION POOR.
WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: HD2204

VAR NO.	VARIETY OR CROSS	ORIGIN	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
1	HORK"S"	MEXICO	100	137	TS	98	30
2	BUTTE-ND519	U.S.A.	93	138	0	122	34
3	NACOZARI"S"	MEXICO	91	135	80S	91	34
4	PAVON 76	MEXICO	95	133	0	91	36
5	OLLANTA	PERU	93	130	60S	116	32
6	Y50E-KAL(3)	MEXICO	102	139	100S	102	38
7	PAVON"S"	MEXICO	103	134	0	93	33
9	MAGPIE"S"	MEXICO	91	129	0	89	41
10	MONCHO"S"	MEXICO	100	139	0	99	32
11	PAVON"S"	MEXICO	96	138	0	93	40
12	CUCKOO"S"	MEXICO	92	135	60S	95	32
13	SIETE CERROS	MEXICO	101	138	100S	99	25
14	S331-NOR67	INDIA/LEB	103	138	0	101	25
15	MAPACHE (TRITICALE)	MEXICO	92	135	60S	110	37
16	SOLTANE	TUNISIA	96	138	5S	101	41
17	TESOPACO"S"	MEXICO	94	129	0	105	30
18	NACOZARI76	MEXICO	98	139	80S	91	34
19	CHIROCA"S"	MEXICO	94	138	0	103	38
20	CHOLI"S"	CHILE/MEX	99	137	100S	90	20
21	ANTIZANA	ECUADOR	94	139	100S	97	40
22	JUPATECO73	MEXICO	90	136	20S	96	42
23	COCORAQUE75	MEXICO	91	134	0	86	36
24	MEXICALI75 (DURUM)	MEXICO	95	139	20S	95	50
25	ANZA	U.S.A.	100	139	100S	95	32
26	NACOZARI"S"	MEXICO	97	136	100S	91	34
27	CONDOR"S"	AUSTRALIA	99	138	15X	91	37
28	NAOFEN	CHILE	103	141	TR	98	32
29	FLICKER"S"	MEXICO	97	138	10S	109	38
30	ABU-GHRAIB3	IRAQ	92	137	100S	96	32
31	GLENLEA	CANADA	102	141	10S	129	42
32	DOUGGA	TUNISIA	103	141	0	97	32
33	GIZA155	EGYPT	94	139	30S	119	40
34	TORIM73	MEXICO	93	139	TS	81	34
35	TANORI71	MEXICO	90	137	10S	95	42
36	UP301 X SON64-PI62	INDIA/LEB	89	128	0	89	40
37	KAL-BB	MEXICO	99	140	0	70	26
38	MN7083	U.S.A.	99	138	0	99	36
39	SONALIKA	INDIA	87	130	0	104	54
40	E.DAKARU	URUGUAY	101	143	20S	118	33
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	94	137	0	91	38
42	H-RA(2)F(2)	INIA/MEX	103	137	TR	104	36
43	PJ-GB X NAI66	PAKISTAN	100	139	100S	96	35
44	EMU"S"	MEXICO	96	139	TR	99	33
45	IAS54	BRAZIL	102	140	100S	105	40
46	BULBUL	PAKISTAN	98	141	100S	106	33
47	M.J.INTA	ARGENTINA	101	138	0	101	38
48	YECORATO "S"	INIA/MEX	95	137	0	80	31
49	INIA66	MEXICO	89	134	TR	103	42
50	LOCAL CHECK		93	134	0	88	44
		GRAND MEAN	96.3	136.7	29.6	98.1	36.1
		STANDARD ERROR OF GRAND MEAN	0.3			0.4	
		COEFFICIENT OF VARIATION AS PC	2.6			3.8	
		LSD VARIETY MEANS 5 PC	5.1			7.6	

CORRELATIONS

FLOW	DAYS				
MAT	DAYS	0.63			
LEAF	RUST	0.12	0.20		
PLNT	HT	0.13	0.16	0.12	
1000	G.W.	-0.49	-0.29	-0.17	0.19

LUDHIANA
PUNJAB AGR UNIV
LATITUDE 030 56'N
LONGITUDE 075 52'E
ELEVATION 0247 M.ABOVE S.L.

DATE PLANTED 12/ 1/77
DATE HARVESTED 5/ 2/78
AMOUNT OF MOISTURE 146 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: WL711

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	PLNT HT	LODG %
35	TANORI71	MEXICO	4444	91	133	0	0	96	20
36	UP301 X SON64-PI62	INDIA/LEB	3912	93	132	5S	0	94	10
49	INIA66	MEXICO	3912	89	132	5S	5S	97	20
38	MN7083	U.S.A. ***	3719	105	135	5S	0	103	23
50	LOCAL CHECK		3671	103	136	0	TS	101	10
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3574	103	137	0	15S	98	20
9	MAGPIE"S"	MEXICO	3381	97	133	0	0	90	7
48	YECORATO "S"	INIA/MEX	3333	109	140	0	0	80	10
22	JUPATECO73	MEXICO	3284	97	134	20S	5S	105	25
45	IAS54	BRAZIL	3284	103	137	0	100S	108	33
11	PAVON"S"	MEXICO	3284	104	137	TS	0	96	12
4	PAVON 76	MEXICO	3236	106	139	0	0	89	13
19	CHIROCA"S"	MEXICO	3236	102	135	10S	0	105	10
39	SONALIKA	INDIA	3139	89	131	TS	TS	104	20
23	COCORAQUE75	MEXICO	3091	90	134	0	5S	86	18
16	SOLTANE	TUNISIA	3043	105	138	10S	TS	102	27
7	PAVON"S"	MEXICO	2946	109	140	0	0	97	27
17	TESOPACO"S"	MEXICO	2946	101	136	0	0	108	23
32	DOUGGA	TUNISIA	2898	110	140	10S	0	93	13
26	NACOZARI"S"	MEXICO	2753	103	138	0	80S	93	7
10	MONCHO"S"	MEXICO	2705	106	138	0	0	101	13
46	BULBUL	PAKISTAN	2657	104	136	0	100S	103	23
37	KAL-BB	MEXICO	2608	103	135	5S	0	73	8
15	MAPACHE (TRITICALE)	MEXICO	2608	96	136	0	TS	118	12
3	NACOZARI"S"	MEXICO	2560	106	138	0	80S	90	0
18	NACOZARI76	MEXICO	2560	107	138	0	80S	91	10
34	TORIM73	MEXICO	2512	90	132	0	0	69	7
28	NAOFEN	CHILE	2463	114	142	0	0	100	30
21	ANTIZANA	ECUADOR	2415	93	132	0	60S	96	30
31	GLENLEA	CANADA	2415	110	140	0	0	128	57
1	MORK"S"	MEXICO	2415	107	140	20S	0	99	35
24	MEXICALI75 (DURUM)	MEXICO	2367	98	136	0	60S	88	10
47	M.J.INTA	ARGENTINA	2318	108	139	40S	0	98	17
5	OLLANTA	PERU	2174	90	135	0	80S	115	60
2	BUTTE-ND519	U.S.A.	2077	107	140	15S	0	120	40
42	H-RA(2)P(2)	INIA/MEX	2077	106	138	0	20S	100	25
27	CONDOR"S"	AUSTRALIA	1835	112	158	0	0	88	10
25	ANZA	U.S.A.	1642	111	141	0	50S	89	8
6	Y50E-KAL(3)	MEXICO	1642	108	139	0	100S	102	33
30	ABU-GHRAIB3	IRAQ	1594	93	134	0	80S	95	30
29	FLICKER"S"	MEXICO	1546	109	140	80S	5S	99	30
14	S331-NOR67	INDIA/LEB	1546	114	142	0	0	106	18
12	CUCKOO"S"	MEXICO	1497	100	135	0	100S	94	8
20	CHOLI"S"	CHILE/MEX	1449	107	138	10S	20MS	89	18
43	PJ-GB X NAI66	PAKISTAN	1401	108	138	20S	100S	90	12
40	E.DAKARU	URUGUAY	1304	109	139	30S	0	122	53
44	EMU"S"	MEXICO	1063	106	139	0	0	93	10
33	GIZA155	EGYPT	1014	106	138	80S	0	118	33
13	SIETE CERROS	MEXICO	725	110	140	20S	100S	94	25
		GRAND MEAN	2536.2	103.1	137.4	7.5	25.1	98.2	20.9
		STANDARD ERROR OF GRAND MEAN	30.9					0.4	
		COEFFICIENT OF VARIATION AS PC	14.8					5.5	
		LSD VARIETY MEANS 5 PC	607.2					8.8	

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	-0.44					
MAT	DAYS	-0.42	0.78				
STRP	RT.	-0.38	0.24	0.12			
LEAF	RUST	-0.34	-0.04	-0.08	-0.16		
PLNT	HT	-0.10	0.11	0.03	0.25	-0.07	
LODG	%	-0.23	0.05	0.04	0.26	0.06	0.72

PANTNAGAR
CEREALS STAFF
LATITUDE 029 00'N DATE PLANTED --/--/-- NITROGEN APPLIED
LONGITUDE 079 00'E DATE HARVESTED --/--/-- PHOSPHORUS APPLIED
ELEVATION 0243 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NOT REPORTED. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	STRP RT.L	LEAF RUST	PLNT HT	LODG %
1	HORK"S"	MEXICO	0	0	107	27
2	BUTTE-ND519	U.S.A.	0	0	125	83
3	NACOZARI"S"	MEXICO	0	30S	91	-
4	PAVON 76	MEXICO	0	0	105	-
5	OLLANTA	PERU	0	100S	122	83
6	Y50E-KAL(3)	MEXICO	0	100S	110	45
7	PAVON"S"	MEXICO	0	0	103	-
9	MAGPIE"S"	MEXICO	0	0	98	-
10	MONCHO"S"	MEXICO	0	0	100	-
11	PAVON"S"	MEXICO	0	0	104	-
12	CUCKOO"S"	MEXICO	0	80S	96	40
13	SIETE CERROS	MEXICO	0	100S	96	8
14	S331-NOR67	INDIA/LEB	0	0	105	5
15	MAPACHE (TRITICALE)	MEXICO	0	TS	118	33
16	SOLTANE	TUNISIA	0	5X	108	48
17	TESOPACO"S"	MEXICO	0	0	115	60
18	NACOZARI76	MEXICO	0	30S	96	40
19	CHIROCA"S"	MEXICO	0	0	105	40
20	CHOLI"S"	CHILE/MEX	6	TS	100	35
21	ANTIZANA	ECUADOR	60S	20S	100	23
22	JUPATECO73	MEXICO	0	40X	100	-
23	COCORAQUE75	MEXICO	0	TR	91	-
24	MEXICALI75 (DURUM)	MEXICO	0	60S	95	60
25	ANZA	U.S.A.	0	30S	98	-
26	NACOZARI"S"	MEXICO	0	30S	105	5
27	CONDOR"S"	AUSTRALIA	0	0	92	-
28	NAOPEN	CHILE	0	5X	110	-
29	FLICKER"S"	MEXICO	60S	40S	100	-
30	ABU-GHRAIB3	IRAQ	0	100S	92	10
31	GLENLEA	CANADA	0	0	128	80
32	DOUGGA	TUNISIA	0	0	95	30
33	GIZA155	EGYPT	100S	0	112	87
34	TORIM73	MEXICO	0	0	77	25
35	TANORI71	MEXICO	0	0	105	80
36	UP301 X SON64-PI62	INDIA/LEB	0	TR	100	25
37	KAL-BB	MEXICO	0	0	80	-
38	MN7083	U.S.A.	0	0	108	45
39	SONALIKA	INDIA	0	0	105	13
40	E.DAKARU	URUGUAY	20S	20S	121	80
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	20S	20S	103	50
42	H-RA(2)F(2)	INIA/MEX	0	30S	105	40
43	PJ-GB X NAI66	PAKISTAN	0	100S	102	35
44	EMU"S"	MEXICO	0	0	100	55
45	IAS54	BRAZIL	TS	40S	105	45
46	BULBUL	PAKISTAN	0	60S	115	-
47	M.J.INTA	ARGENTINA	0	0	115	53
48	YECORATO "S"	INIA/MEX	0	0	85	-
49	INIA66	MEXICO	0	TS	115	13
50	LOCAL CHECK		0	20X	110	33
		GRAND MEAN	5.3	21.1	103.5	46.5

STANDARD ERROR OF GRAND MEAN
COEFFICIENT OF VARIATION AS PC
LSD VARIETY MEANS 5 PC

CORRELATIONS

STRP	RT.L			
LEAF	RUST	-0.04		
PLNT	HT	0.08	-0.03	
LODG	%	0.28	-0.11	0.55

KITAMI
S.OZEKI ET AL
LATITUDE 043 47'N
LONGITUDE 143 42'E
ELEVATION 0196 M.ABOVE S.L.

DATE PLANTED 5/ 6/78
DATE HARVESTED 8/16/78
AMOUNT OF MOISTURE 323 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
15	MAPACHE (TRITICALE)	MEXICO	3691	62	59	92	5R	108	34
2	BUTTE-ND519	U.S.A.	3639	77	60	93	TR	108	33
38	MN7083	U.S.A.	3533	73	60	90	TR	91	33
22	JUPATECO73	MEXICO	3439	75	60	90	TR	88	33
47	M.J.INTA	ARGENTINA	3361	74	62	91	5MR	98	34
31	GLENLEA	CANADA	3350	75	64	94	10S	113	35
45	IAS54	BRAZIL	3322	72	64	91	10S	101	31
11	PAVON"S"	MEXICO	3239	75	62	90	TR	95	31
42	H-RA(2)F(2)	INIA/MEX	3227	69	61	89	TR	91	37
26	NACOZARI"S"	MEXICO	3222	73	60	88	20S	86	31
29	FLICKER"S"	MEXICO	3216	62	62	89	TR	70	28
18	NACOZARI76	MEXICO	3194	70	59	88	40S	85	32
46	BULBUL	PAKISTAN	3161	74	63	91	60S	94	30
16	SOLTANE	TUNISIA	3150	71	61	89	TR	94	34
9	MAGPIE"S"	MEXICO	3139	69	61	89	TR	82	29
19	CHIROCA"S"	MEXICO	3111	75	63	91	TR	92	32
12	CUCKOO"S"	MEXICO	3111	73	59	91	5R	89	28
1	HORK"S"	MEXICO	3094	69	63	91	0	91	23
28	NAOFEN	CHILE	3089	69	65	93	0	85	32
23	COCORAQUE75	MEXICO	3077	73	58	88	TR	81	33
21	ANTIZANA	ECUADOR	3066	74	61	90	TR	80	35
10	MONCHO"S"	MEXICO	3061	74	61	91	5R	70	36
4	PAVON 76	MEXICO	3055	74	63	90	TR	94	29
30	ABU-GHRAIB3	IRAQ	3055	74	59	91	5R	84	30
41	CNO"S" X NAD63-CRR"S"/SON-K1	ARGENTINA	3039	73	56	88	0	82	35
44	EMU"S"	MEXICO	3033	75	62	89	TR	84	33
7	PAVON"S"	MEXICO ***	2983	70	65	92	TR	95	28
3	NACOZARI"S"	MEXICO	2977	67	59	87	10S	87	30
36	UP301 X SON64-PI62	INDIA/LEB	2960	71	55	87	5R	85	31
49	INIA66	MEXICO	2944	73	56	87	5R	84	33
27	CONDOR"S"	AUSTRALIA	2866	73	63	93	40S	72	30
35	TANORI71	MEXICO	2850	72	55	88	10S	85	33
24	MEXICALI75 (DURUM)	MEXICO	2850	70	58	89	10S	91	34
50	LOCAL CHECK		2800	76	61	90	80S	115	30
6	Y5JE-KAL(3)	MEXICO	2744	72	63	90	60S	92	30
39	SONALIKA	INDIA	2705	71	57	90	5MR	94	37
25	ANZA	U.S.A.	2683	73	64	93	40S	79	26
17	TESOPACO"S"	MEXICO	2678	71	60	88	5R	97	32
48	YECORATO "S"	INIA/MEX	2600	73	58	88	0	70	32
37	KAL-BB	MEXICO	2528	69	63	87	TR	64	26
13	SIETE CERROS	MEXICO	2500	70	64	90	60S	87	26
32	DOUGGA	TUNISIA	2494	73	63	91	0	79	29
34	TORIM73	MEXICO	2466	70	58	87	TR	71	26
43	PJ-GB X NAI66	PAKISTAN	2433	72	61	92	TR	84	30
14	S331-NOR67	INDIA/LEB	2422	63	65	91	TR	94	27
40	E.DAKARU	URUGUAY	2394	75	62	91	TR	110	36
5	OLLANTA	PERU	2366	73	55	87	10S	106	32
33	GIZA155	EGYPT	2244	72	60	92	40S	98	34
20	CHOLI"S"	CHILE/MEX	2228	71	60	88	10S	80	27
		GRAND MEAN	2946.8	71.7	60.7	89.9	10.1	89.6	31.4
		STANDARD ERROR OF GRAND MEAN	29.0					0.2	0.1
		COEFFICIENT OF VARIATION AS PC	11.9					3.0	5.5
		LSD VARIETY MEANS 5 PC	570.3					4.3	2.0

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
TEST WT	0.06						
FLOW DAYS	0.05	-0.07					
MAT DAYS	0.22	0.15	0.62				
LEAF RUST	-0.26	0.15	0.08	-0.01			
PLNT HT	0.26	0.19	0.10	0.39	0.20		
1000 G.W.	0.33	0.31	-0.24	0.15	-0.21	0.46	

MOKPO
CEREAL WORKERS

LATITUDE	034 47'N	DATE PLANTED	10/24/77	NITROGEN	APPLIED
LONGITUDE	126 28'E	DATE HARVESTED	5/31/78	PHOSPHORUS	APPLIED
ELEVATION	0025 M.ABOVE S.L.	AMOUNT OF MOISTURE	210 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
TWO DROUGHT PERIODS DURING THE GROWING SEASON.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: CHOKWANG

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.	EARS /M2
15	MAPACHE (TRITICALE)	MEXICO	3777	67	186	234	94	38	518
36	UP301 X SON64-PI62	INDIA/LEB	3645	79	185	228	69	31	662
29	PLICKER*S*	MEXICO	3612	76	190	231	76	35	602
5	OLLANTA	PERU	3566	79	187	230	100	34	602
17	TESOPACO*5*	MEXICO	3561	78	109	230	90	36	591
46	BULBUL	PAKISTAN	3530	82	192	231	84	36	296
3	NACOZARI*S*	MEXICO ***	3481	80	189	231	72	34	544
12	CUCKOO*S*	MEXICO	3480	80	189	228	78	28	735
7	PAVON*6*	MEXICO	3472	80	192	232	72	31	642
18	NACOZARI76	MEXICO	3275	79	189	230	75	35	564
6	Y50E-KAL(3)	MEXICO	3257	81	194	232	82	38	504
50	LOCAL CHECK		3190	77	192	229	71	33	362
9	MAGPIE*S*	MEXICO	3159	77	107	228	68	36	660
4	PAVON 76	MEXICO	3116	80	192	231	73	32	749
45	IAS54	BRAZIL	3107	79	189	230	86	37	399
1	HORK*S*	MEXICO	3043	79	192	231	75	28	658
47	M.J.INTA	ARGENTINA	2992	81	189	229	79	41	369
22	JUPATECO73	MEXICO	2968	81	188	228	76	33	675
49	INIA66	MEXICO	2944	82	189	232	72	37	309
35	TANORI71	MEXICO	2934	82	189	231	71	37	491
14	S331-NOR67	INDIA/LEB	2907	77	192	230	84	32	491
30	ABU-GHRAIB3	IRAQ	2828	80	189	228	69	32	549
19	CHIROCA*6*	MEXICO	2820	81	191	229	75	33	380
38	MN7083	U.S.A.	2800	80	189	232	72	36	611
25	ANZA	U.S.A.	2800	81	190	230	65	32	733
16	SOLTANE	TUNISIA	2797	81	189	229	82	41	493
2	BUTTE-ND519	U.S.A.	2738	81	192	233	105	41	875
27	CONDOR*S*	AUSTRALIA	2693	82	190	229	67	35	565
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	2691	81	189	231	70	37	540
13	SIETE CERROS	MEXICO	2660	79	191	231	80	33	502
48	YECORATO *6*	INIA/MEX	2645	78	189	231	58	35	354
28	NAOPEN	CHILE	2592	77	194	234	73	35	555
40	E.DAKARU	URUGUAY	2578	81	191	231	97	33	686
42	H-RA(2)F(2)	INIA/MEX	2568	78	191	232	75	41	427
34	TORIM73	MEXICO	2495	80	189	231	53	38	556
43	PJ-GB X NAI66	PAKISTAN	2492	79	192	231	76	34	298
10	MONCHO*S*	MEXICO	2441	79	192	232	70	35	753
23	COCORAQUE75	MEXICO	2423	79	187	228	61	33	620
24	MEXICALI75 (DURUM)	MEXICO	2371	77	189	233	81	43	549
21	ANTIZANA	ECUADOR	2365	80	188	229	71	41	555
39	SONALIKA	INDIA	2247	79	187	233	69	44	493
44	EMU*6*	MEXICO	2205	79	190	230	74	34	352
20	CHOLI*6*	CHILE/MEX	2197	64	191	230	72	28	626
37	KAL-BB	MEXICO	2172	75	189	232	51	32	509
26	NACOZARI*S*	MEXICO	2146	80	188	227	65	35	558
32	DOUGGA	TUNISIA	2063	81	189	229	71	35	540
31	GLENLEA	CANADA	1941	78	195	234	91	41	613
33	GIZA155	EGYPT	1885	79	190	233	80	36	531
11	PAVON*8*	MEXICO	1873	81	191	230	61	34	496
		GRAND MEAN	2807.0	78.9	189.9	230.6	75.2	35.3	545.0
		STANDARD ERROR OF GRAND MEAN	11.8	0.2			0.6	0.1	
		COEFFICIENT OF VARIATION AS PC	5.1	3.2			9.1	3.9	
		LSD VARIETY MEANS 5 PC	231.1	4.1			11.1	2.2	

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.	EARS /M2
TEST WT	-0.02						
FLOW DAYS	-0.20	0.08					
MAT DAYS	-0.13	-0.23	0.44				
PLNT HT	0.29	-0.06	0.20	0.31			
1000 G.W.	-0.21	0.16	-0.00	0.40	0.23		
EARS /M2	0.08	-0.04	-0.02	-0.01	0.15	-0.23	

PARWANIPUR AS
CEREALS STAFF
LATITUDE
LONGITUDE
ELEVATION M.ABOVE S.L.

DATE PLANTED 11/23/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION & NOT REPORTED.
WEATHER NORMAL. NEGLIGIBLE INSECT AND BIRD DAMAGE. NO WEED PROBLEM.
LOCAL CHECK: RR21

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
35	TANORI71	MEXICO	5467	77	114	97	36
39	SONALIKA	INDIA	4980	74	111	98	48
42	H-RA(2)F(2)	INIA/MEX	4933	95	124	103	36
29	FLICKER*S*	MEXICO	4800	97	125	96	38
18	NACOZARI76	MEXICO	4733	86	116	96	40
50	LOCAL CHECK		4667	73	111	107	48
19	CHIROCA*S*	MEXICO	4500	85	116	102	41
26	NACOZARI*S*	MEXICO	4433	83	116	90	38
37	KAL-BB	MEXICO	4427	87	121	69	38
22	JUPATECO73	MEXICO	4400	83	117	100	38
48	YECORATO *6*	INIA/MEX	4333	88	116	76	43
30	ABU-GHRAIB3	IRAQ	4307	83	117	95	33
46	BULBUL	PAKISTAN	4267	83	116	104	36
15	MAPACHE (TRITICALE)	MEXICO	4200	86	120	115	35
16	SOLTANE	TUNISIA	4080	89	120	105	43
2	BUTTE-ND519	U.S.A.	4013	89	121	125	38
9	MAGPIE*6*	MEXICO	4000	85	121	91	38
11	PAVON*6*	MEXICO	3907	90	124	94	36
4	PAVON 76	MEXICO	3867	88	121	96	33
1	HORK*6*	MEXICO	3833	88	121	97	35
44	EMU*S*	MEXICO	3800	90	122	95	35
25	ANZA	U.S.A.	3773	90	123	89	33
43	PJ-GB X NAI66	PAKISTAN	3773	82	113	95	33
36	UP301 X SON64-PI62	INDIA/LEB	3747	77	114	90	38
3	NACOZARI*6*	MEXICO	3733	83	116	91	40
7	PAVON*S*	MEXICO	3667	96	124	100	38
17	TESOPACO*S*	MEXICO	3600	84	116	110	41
34	TORIM73	MEXICO	3600	82	114	79	41
27	CONDOR*6*	AUSTRALIA	3600	92	122	79	40
20	CHOLI*6*	CHILE/MEX	3600	87	120	96	36
40	E.DAKARU	URUGUAY	3480	92	126	126	36
49	INIA66	MEXICO	3467	77	114	102	40
14	S331-NOR67	INDIA/LEB	3467	92	125	97	36
45	IAS5[illegible]	BRAZIL ***	3427	91	120	110	38
32	DOUGGA	TUNISIA	3333	92	123	91	36
12	CUCKOO*S*	MEXICO	3300	84	119	93	29
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	3287	89	121	92	43
38	MN7083	U.S.A.	3280	87	120	100	40
23	COCORAQUE75	MEXICO	3253	85	116	94	41
31	GLENLEA	CANADA	3233	93	123	137	49
47	M.J.INTA	ARGENTINA	3000	93	125	102	40
33	GIZA155	EGYPT	2867	88	118	132	36
6	Y50E-KAL(3)	MEXICO	2800	87	120	99	33
21	ANTIZANA	ECUADOR	2733	85	121	95	46
10	MONCHO*6*	MEXICO	2600	92	123	107	33
5	OLLANTA	PERU	2480	79	113	118	35
24	MEXICALI75 (DURUM)	MEXICO	2393	90	120	90	62
13	SIETE CERROS	MEXICO	2013	86	119	93	28
28	NAOPEN	CHILE	667	95	127	100	40
		GRAND MEAN	3675.9	86.7	119.4	99.2	38.7
		STANDARD ERROR OF GRAND MEAN	82.3	0.1	0.1	0.5	0.4
		COEFFICIENT OF VARIATION AS PC	27.1	2.0	1.5	5.7	11.6
		LSD VARIETY MEANS 5 PC	1617.2	2.0	2.9	9.2	7.3

CORRELATIONS

YIELD KG/HA					
FLOW	DAYS	-0.31			
MAT	DAYS	-0.35	0.90		
PLNT	HT	-0.15	0.09	0.10	
1000	G.W.	-0.11	-0.03	-0.10	0.01

LYALLPUR
N.I.A.B.
LATITUDE 031 30'N
LONGITUDE 073 10'E
ELEVATION 0213 M.ABOVE S.L.

DATE PLANTED 11/14/77
DATE HARVESTED 5/ 3/78
AMOUNT OF MOISTURE 483 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM —

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
SEVERE FROST DAMAGE IN JANUARY AND FIRST WEEK OF FEBRUARY
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK PB-76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	PLNT HT	LODG %
18	NACOZARI76	MEXICO	4911	108	153	0	40S	100	0
26	NACOZARI*S*	MEXICO	4322	109	153	0	65S	108	30
9	MAGPIE*S*	MEXICO	4222	100	146	0	0	95	30
11	PAVON*S*	MEXICO	4211	112	153	5R	0	110	90
10	MONCMO*S*	MEXICO	4200	114	153	0	0	110	10
35	TANORI71	MEXICO	4177	97	150	0	0	104	10
3	NACOZARI*S*	MEXICO	4166	106	140	0	25MS	95	50
22	JUPATECO73	MEXICO	4155	101	150	0	5R	110	0
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	4077	102	150	5R	10R	106	90
46	BULBUL	PAKISTAN	4066	108	153	5R	25MS	122	100
49	INIA66	MEXICO	4022	96	148	10MR	5R	104	10
19	CHIROCA*S*	MEXICO	4000	106	155	0	0	108	50
17	TESOPACO*S*	MEXICO	3988	104	144	0	0	120	100
12	CUCKOO*S*	MEXICO	3966	102	150	10MR	40S	100	90
36	UP301 X SON64-PI62	INDIA/LEB	3933	97	148	0	0	108	90
16	SOLTANE	TUNISIA	3933	108	153	TR	TR	116	100
4	PAVON 76	MEXICO	3855	111	153	0	5R	106	50
23	COCORAQUE75	MEXICO ***	3800	99	146	0	0	92	0
48	YECORATO *S*	INIA/MEX	3777	107	153	0	0	88	100
27	CONDOR*S*	AUSTRALIA	3700	114	160	0	TR	94	0
37	KAL-BB	MEXICO	3633	108	153	25MS	0	83	0
15	MAPACHE (TRITICALE)	MEXICO	3622	98	155	0	TR	125	0
24	MEXICALI75 (DURUM)	MEXICO	3522	101	150	0	10MR	100	20
21	ANTIZANA	ECUADOR	3333	100	148	0	25MS	105	10
7	PAVON*S*	MEXICO	3277	119	155	5R	0	115	90
25	ANZA	U.S.A.	3233	109	153	0	25MS	100	30
1	HORK*S*	MEXICO	3222	113	150	TR	0	112	90
34	TORIM73	MEXICO	3177	99	150	0	0	90	0
28	NAOFEW	CHILE	3133	117	155	0	25MS	111	0
32	DOUGGA	TUNISIA	3102	117	156	0	TR	100	80
29	FLICKER*S*	MEXICO	3077	118	155	10MR	25S	110	100
6	Y50E-KAL(3)	MEXICO	2889	115	153	0	0	106	90
45	IAS54	BRAZIL	2866	107	153	0	0	124	100
47	M.J.INTA	ARGENTINA	2833	113	155	0	25MS	106	100
33	GIZA155	EGYPT	2822	108	156	25MS	40S	132	90
20	CHOLI*S*	CHILE/MEX	2789	108	153	0	10MR	100	40
30	ABU-GHRAIB3	IRAQ	2789	103	154	0	40S	102	70
39	SONALIKA	INDIA	2778	95	153	0	5R	108	90
38	MN7003	U.S.A.	2722	106	153	0	0	116	100
43	PJ-GP X NAI66	PAKISTAN	2622	107	153	0	40S	102	100
42	H-RA(2)F(2)	INIA/MEX	2600	112	152	5R	10R	112	100
5	OLLANTA	PERU	2522	95	144	0	65S	126	100
50	LOCAL CHECK		2411	114	150	10MS	65S	96	100
44	EMU*S*	MEXICO	2211	109	153	0	0	112	100
40	E.DAKARU	URUGUAY	2011	114	150	0	10R	132	100
14	S331-NOR67	INDIA/LEB	2000	118	153	0	0	112	90
2	BUTTE-ND519	U.S.A.	1800	108	153	10MS	0	128	100
13	SIETE CERROS	MEXICO	1600	114	148	0	65S	106	90
31	GLENLEA	CANADA	1444	119	156	0	0	129	90
		GRAND MEAN	3300.4	107.4	151.9	1.5	12.7	108.2	62.7

STANDARD ERROR OF GRAND MEAN 45.5
COEFFICIENT OF VARIATION AS PC 16.7
LSD VARIETY MEANS 5 PC 894.2

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	-0.37					
MAT	DAYS	-0.26	0.54				
STRP	RT.L	-0.10	0.05	0.12			
LEAF	RUST	-0.13	0.02	-0.16	0.16		
PLNT	HT	-0.37	0.16	0.23	0.00	-0.02	
LODG	%	-0.50	0.30	0.08	0.01	0.13	0.43

TANDOJAM
A.H.NATALI
LATITUDE 025 02'N
LONGITUDE 063 38'E
ELEVATION 0019 M.ABOVE S.L.

DATE PLANTED 11/ 1/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE 457 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION POOR.
DRY WEATHER THROUGHOUT THE TRIAL
LEAF AND STEM RUST APPEARED IN THE LAST WEEK OF FEBRUARY
LOCAL CHECK: SB-76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	1000 G.W.
10	MONCHO"S"	MEXICO	3437	63	140	0	0	51
37	KAL-BB	MEXICO	3349	53	133	0	0	45
50	LOCAL CHECK		3318	70	141	0	----	46
11	PAVON"S"	MEXICO	3312	62	129	0	0	45
42	H-RA(2)F(2)	INIA/MEX	3188	72	138	0	0	41
9	MAGPIE"S"	MEXICO	3182	61	129	0	0	48
28	NAOFEN	CHILE	3102	76	144	0	10MS	38
7	PAVON"S"	MEXICO	3102	59	141	0	0	35
27	CONDOR"S"	AUSTRALIA	3056	57	142	0	0	43
12	CUCKOO"S"	MEXICO	3052	53	136	10MR	0	40
31	GLENLEA	CANADA	2975	70	141	10MS	0	46
30	ABU-GHRAIB3	IRAQ	2935	51	133	5MR	0	41
32	DOUGGA	TUNISIA	2935	57	136	50S	0	45
18	NACOZARI76	MEXICO	2903	53	129	0	0	44
19	CHIROCA"S"	MEXICO	2847	51	136	0	0	49
22	JUPATECO73	MEXICO	2826	53	133	5MR	0	48
29	FLICKER"S"	MEXICO	2760	66	142	5MR	5MR	46
43	PJ-GB X NAI66	PAKISTAN	2754	52	136	0	0	44
40	E.DAKARU	URUGUAY	2718	74	141	0	0	38
23	COCORAQUE75	MEXICO	2686	54	129	0	0	46
20	CHOLI"S"	CHILE/MEX	2684	52	133	20MR	0	41
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2680	57	136	0	0	41
47	M.J.INTA	ARGENTINA	2678	64	140	5MR	0	50
44	EMU"S"	MEXICO	2678	58	133	TR	0	41
39	SONALIKA	INDIA	2598	51	129	0	0	50
25	ANZA	U.S.A.	2578	56	136	30MS	70S	42
16	SOLTANE	TUNISIA	2558	55	129	0	0	52
49	INIA66	MEXICO	2527	50	129	0	0	-
15	MAPACHE (TRITICALE)	MEXICO	2471	50	136	0	0	48
38	MN7083	U.S.A.	2429	57	141	0	0	44
33	GIZA155	EGYPT	2429	64	136	0	0	48
1	HORK"S"	MEXICO	2388	58	129	0	0	41
13	SIETE CERROS	MEXICO	2262	52	136	70MS	0	41
46	BULB [illegible]	PAKISTAN	2222	51	129	15MS	0	47
6	Y50E-KAL(3)	MEXICO	2182	57	129	10MR	0	50
17	TESOPACO"S"	MEXICO ***	2141	58	133	0	0	50
24	MEXICALI75 (DURUM)	MEXICO	2141	52	133	30MS	0	64
26	NACOZARI"S"	MEXICO	2093	51	129	0	20MR	45
35	TANORI71	MEXICO	2061	51	133	0	0	46
4	PAVON 76	MEXICO	2015	62	129	0	0	48
14	S331-NOR67	INDIA/LEB	2013	58	136	0	0	48
5	OLLANTA	PERU	1981	52	-	25MS	25MS	-
48	YECORATO "S"	INIA/MEX	1966	51	129	0	0	48
2	BUTTE-ND519	U.S.A.	1878	56	133	0	30MS	41
3	NACOZARI"S"	MEXICO	1840	51	129	30MS	30MS	44
21	ANTIZANA	ECUADOR	1684	51	133	----	0	54
45	IAS54	BRAZIL	1671	62	133	10MS	0	41
36	UP301 X SON64-PI62	INDIA/LEB	1381	51	127	0	0	50
34	TORIM73	MEXICO	998	50	129	0	0	46
		GRAND MEAN	2523.7	57.0	134.1	5.2	3.3	45.7

STANDARD ERROR OF GRAND MEAN 52.0
COEFFICIENT OF VARIATION AS PC 25.0
LSD VARIETY MEANS 5 PC 1021.8

CORRELATIONS

YIELD	KG/HA					
FLOW	DAYS	0.43				
MAT	DAYS	0.48	0.62			
LEAF	RUST	-0.12	-0.18	0.03		
STEM	RUST	-0.12	-0.05	0.03	0.29	
1000	G.W.	-0.25	-0.29	-0.33	-0.00	-0.18

LOS BANOS (UP)
T. MASASO ET AL

LATITUDE	14 10'N	DATE PLANTED	12/13/77	NITROGEN	APPLIED
LONGITUDE	121 15'E	DATE HARVESTED	3/--/78	PHOSPHORUS	APPLIED
ELEVATION	21 M.ABOVE S.L.	AMOUNT OF MOISTURE	390 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. GERMINATION GOOD. WEATHER NORMAL.
SOME INCIDENCE OF FOOT ROT AND (SEVERE) HELMINTHOSPORIUM.
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: ACC. 4073

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.	HELM
45	IAS54	BRAZIL	2727	64	101	74	29	I
50	LOCAL CHECK		2355	57	95	91	33	I
12	CUCKOO"S"	MEXICO	2328	45	87	73	28	I
39	SONALIKA	INDIA	2095	46	86	72	39	I
46	BULBUL	PAKISTAN	2064	45	80	78	32	S
41	CNO"S" X MAD63-CHR"S"/SOW-K1	ARGENTINA	2025	53	94	72	32	I
4	PAVON 76	MEXICO ***	1924	56	95	75	31	I
25	ANZA	U.S.A.	1920	53	90	70	31	I
38	MN7083	U.S.A.	1917	47	82	68	34	I
30	ABU-GHRAIB3	IRAQ	1909	47	87	71	31	S
2	BUTTE-ND519	U.S.A.	1804	53	97	83	30	I
18	NACOZARI76	MEXICO	1769	48	80	65	29	I
16	SOLTANE	TUNISIA	1696	56	99	81	34	I
48	YECORATO "S"	INIA/MEX	1660	49	81	61	29	I
22	JUPATECO73	MEXICO	1646	63	102	76	31	I
43	PJ-GB X NAI66	PAKISTAN	1639	46	90	67	30	I
26	NACOZARI"S"	MEXICO	1633	42	77	67	30	I
6	Y50E-KAL(3)	MEXICO	1629	49	86	72	33	I
13	SIETE CERROS	MEXICO	1622	43	80	71	28	I
1	HORK"S"	MEXICO	1620	58	93	78	25	I
49	INIA66	MEXICO	1617	48	81	72	28	S
20	CHOLI"S"	CHILE/MEX	1615	47	87	64	26	I
35	TANORI71	MEXICO	1611	48	83	72	26	I
37	KAL-BB	MEXICO	1582	46	88	53	30	I
19	CHIROCA"S"	MEXICO	1563	49	91	71	33	I
15	MAPACHE (TRITICALE)	MEXICO	1559	45	98	82	31	I
27	CONDOR"S"	AUSTRALIA	1547	56	90	63	30	S
32	DOUGGA	TUNISIA	1482	51	90	63	29	S
21	ANTIZANA	ECUADOR	1475	50	90	64	31	I
24	MEXICALI75 (DURUM)	MEXICO	1464	67	93	69	31	I
17	TESOPACO"S"	MEXICO	1418	56	94	80	26	I
44	EMU"S"	MEXICO	1410	56	91	63	30	S
3	NACOZARI"S"	MEXICO	1385	42	77	66	27	I
23	COCORAQUE75	MEXICO	1384	65	98	69	26	I
33	GIZA155	EGYPT	1379	69	105	92	35	I
40	E.DAKARU	URUGUAY	1374	66	101	77	32	I
31	GLENLEA	CANADA	1308	66	95	85	38	I
14	S331-NOR67	INDIA/LEB	1209	60	95	78	31	S
10	MONCHO"S"	MEXICO	1199	70	105	73	27	I
9	MAGPIE"S"	MEXICO	1194	66	100	72	24	I
5	OLLANTA	PERU	1107	39	82	77	25	I
34	TORIM73	MEXICO	1100	45	79	58	25	I
11	PAVON"S"	MEXICO	987	57	98	72	31	I
36	UP301 X SON64-PI62	INDIA/LEB	953	41	88	57	28	I
42	H-RA(2)F(2)	INIA/MEX	933	65	101	75	28	I
28	NAOPEN	CHILE	491	69	105	68	24	I
47	M.J.INTA	ARGENTINA	402	70	105	77	33	I
29	FLICKER"S"	MEXICO	305	74	106	70	27	I
7	PAVON"S"	MEXICO	280	74	105	68	21	I
		GRAND MEAN	1497.8	54.7	91.7	71.8	29.5	
		STANDARD ERROR OF GRAND MEAN	31.9			0.3	0.2	
		COEFFICIENT OF VARIATION AS PC	25.8			5.5	7.5	
		LSD VARIETY MEANS 5 PC	627.1			6.4	3.6	

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	-0.46			
MAT	DAYS	-0.41	0.88		
PLNT	HT	0.16	0.34	0.42	
1000	G.W.	0.40	-0.07	-0.01	0.35

EST EXP F.B.MORENO
UNIV. OF COSTA RICA

LATITUDE	10 00'N	DATE PLANTED	9/12/77	NITROGEN	APPLIED
LONGITUDE	84 00'W	DATE HARVESTED	1/--/78	PHOSPHORUS	APPLIED
ELEVATION	843 M.ABOVE S.L.	AMOUNT OF MOISTURE	765 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
DAMP CONDITIONS CAUSED HEAVY WEED INCIDENCE AND PLANT STAND LOSS.
HAND WEEDING. SOME RODENT DAMAGE.LOCAL CHECK: JUPATECO.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
10	MONCHO"S"	MEXICO	1150	58	64
45	IAS54	BRAZIL	991	60	75
1	HORK"S"	MEXICO	910	58	63
16	SOLTANE	TUNISIA	907	53	70
9	MAGPIE"S"	MEXICO	888	60	58
3	NACOZARI"S"	MEXICO	824	46	53
33	GIZA155	EGYPT	811	60	85
22	JUPATECO73	MEXICO	797	53	62
47	M.J.INTA	ARGENTINA	792	80	76
27	CONDOR"S"	AUSTRALIA	749	53	53
40	E.DAKARU	URUGUAY	732	60	77
46	BULBUL	PAKISTAN	691	46	62
6	Y50E-KAL(3)	MEXICO	684	49	49
4	PAVON 76	MEXICO	681	54	59
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	677	52	59
44	EMU"S"	MEXICO	645	52	56
23	COCORAQUE75	MEXICO	618	59	59
15	MAPACHE (TRITICALE)	MEXICO	607	45	67
2	BUTTE-ND519	U.S.A.	605	52	73
12	CUCKOO"S"	MEXICO	605	47	55
29	FLICKER"S"	MEXICO	571	76	65
19	CHIROCA"S"	MEXICO	567	50	56
31	GLENLEA	CANADA	554	60	78
30	ABU-GHRAIB3	IRAQ	551	47	56
42	H-RA(2)F(2)	INIA/MEX	531	58	69
26	NACOZARI"S"	MEXICO	520	45	49
50	LOCAL CHECK		493	56	62
37	KAL-BB	MEXICO	443	47	39
49	INIA66	MEXICO	428	45	51
18	NACOZARI76	MEXICO	403	46	50
32	DOUGGA	TUNISIA	392	52	45
11	PAVON"S"	MEXICO	372	55	58
13	SIETE CERROS	MEXICO	367	48	51
39	SONA[illegible]A	INDIA	358	45	54
43	PJ-Gb X NAI66	PAKISTAN	342	47	55
48	YECORATO "S"	INIA/MEX	299	48	46
24	MEXICALI75 (DURUM)	MEXICO	297	57	56
35	TANORI71	MEXICO	286	44	53
14	S331-NOR67	INDIA/LEB	272	54	57
34	TORIM73	MEXICO	269	47	39
17	TESOPACO"S"	MEXICO	263	53	66
25	ANZA	U.S.A.	254	56	54
28	NAOFEN	CHILE	243	63	65
38	MN7883	U.S.A.	213	48	49
20	CHOLI"S"	CHILE/MEX	212	46	51
21	ANTIZANA	ECUADOR	202	49	54
36	UP301 X SON64-PI62	INDIA/LEB	197	44	47
5	OLLANTA	PERU	173	45	62
7	PAVON"S"	MEXICO	-	75	-
		GRAND MEAN	530.7	52.0	50.9

STANDARD ERROR OF GRAND MEAN
COEFFICIENT OF VARIATION AS PC
LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD KG/HA		
FLOW DAYS	0.37	
PLNT HT	0.50	0.57

S. CRUZ
LATITUDE 014 52'N
LONGITUDE 091 30'W
ELEVATION 2407 M.ABOVE S.L.

DATE PLANTED 6/ 9/78
DATE HARVESTED 12/11/78
AMOUNT OF MOISTURE 750 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
RAINFALL DURING NOVEMBER AND DECEMBER.
APHID ATTACK
LOCAL CHECK: QUETZAL 75

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	PLNT HT	1000 G.W.
15	MAPACHE (TRITICALE)	MEXICO	4902	57	60	135	10MR	----	117	40
17	TESOPACO"S"	MEXICO	4881	70	63	133	10MR	10S	107	36
45	IAS54	BRAZIL	4412	69	68	135	65S	----	115	35
12	CUCKOO"S"	MEXICO	4320	68	62	140	25MS	10MS	93	30
10	MONCHO"S"	MEXICO	4236	70	68	139	10MS	----	102	34
2	BUTTE-ND519	U.S.A. ***	4110	73	57	133	5MR	----	107	33
48	YECORATO "S"	INIA/MEX	4084	69	57	132	----	----	82	31
19	CHIROCA"S"	MEXICO	4075	69	65	142	----	----	100	30
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	4043	69	58	134	----	65S	90	34
21	ANTIZANA	ECUADOR	4027	69	62	135	TS	40S	90	36
36	UP301 X SON64-PI62	INDIA/LEB	3975	67	55	128	----	80S	92	31
30	ABU-GHRAIB3	IRAQ	3953	67	61	136	65MS	----	88	28
23	COCORAQUE75	MEXICO	3929	68	63	134	10MS	----	92	30
11	PAVON"S"	MEXICO	3883	69	69	140	0	0	100	30
47	M.J.INTA	ARGENTINA	3881	67	73	141	10MS	10MS	107	34
26	NACOZARI"S"	MEXICO	3869	64	62	135	----	10MS	90	29
50	LOCAL CHECK		3856	67	63	132	----	10MS	97	31
9	MAGPIE"S"	MEXICO	3807	66	66	134	TMS	25S	90	32
44	EMU"S"	MEXICO	3731	66	65	135	----	10MS	98	36
4	PAVON 76	MEXICO	3717	67	68	138	----	----	100	30
34	TORIM73	MEXICO	3652	65	59	128	TR	65S	72	28
22	JUPATECO73	MEXICO	3645	68	62	135	100S	----	102	31
42	H-RA(2)F(2)	INIA/MEX	3641	61	70	134	----	65MS	105	32
29	FLICKER"S"	MEXICO	3611	65	72	136	25MS	10MS	102	32
3	NACOZARI"S"	MEXICO	3541	64	60	138	----	----	92	28
7	PAVON"S"	MEXICO	3541	64	72	141	----	----	103	27
1	HORK"S"	MEXICO	3499	67	68	137	----	----	98	26
31	GLENLEA	CANADA	3463	68	71	135	----	----	125	37
28	NAOFEN	CHILE	3439	63	72	140	10MS	25MS	95	31
38	MN708J	U.S.A.	3376	66	61	132	----	----	93	33
25	ANZA	U.S.A.	3320	64	65	140	----	25MS	88	24
18	NACOZARI76	MEXICO	3240	59	65	135	----	----	90	27
16	SOLTANE	TUNISIA	3236	67	69	135	----	----	102	32
5	OLLANTA	PERU	3148	64	51	131	----	40S	107	30
32	DOUGGA	TUNISIA	3108	59	71	136	----	5MS	95	24
37	KAL-BB	MEXICO	3055	58	62	128	----	25MS	70	26
22	CHOLI"S"	CHILE/MEX	3024	62	63	134	0	0	87	26
49	INIA66	MEXICO	2955	66	57	132	----	100S	90	29
6	Y50E-KAL(3)	MEXICO	2856	64	65	142	----	----	97	28
46	BULBUL	PAKISTAN	2804	65	61	139	80S	----	108	26
33	GIZA155	EGYPT	2744	68	62	130	TS	40MS	107	32
27	CONDOR"S"	AUSTRALIA	2732	64	70	140	TS	10MS	85	24
13	SIETE CERROS	MEXICO	2666	58	65	142	25MS	----	90	24
43	PJ-GD X NAI66	PAKISTAN	2616	62	65	142	TR	25MS	90	25
39	SONALIKA	INDIA	2607	63	59	133	----	80S	92	33
24	MEXICALI75 (DURUM)	MEXICO	2562	61	60	140	----	----	90	37
14	S331-NOR67	INDIA/LEB	2555	57	69	139	----	----	97	28
40	E.DAKARU	URUGUAY	2521	65	68	139	----	----	115	27
35	TAMORI71	MEXICO	2317	58	58	130	----	80S	92	23
		GRAND MEAN	3493.4	65.0	64.0	135.8	18.3	31.1	96.6	30.2
		STANDARD ERROR OF GRAND MEAN	34.5	0.2	0.1				0.4	0.2
		COEFFICIENT OF VARIATION AS PC	12.0	3.7	1.0				4.7	9.5
		LSD VARIETY MEANS 5 PC	678.9	3.9	1.9				7.4	4.6

CORRELATIONS

YIELD	KG/HA							
TEST	WT	0.55						
FLOW	DAYS	-0.03	-0.07					
MAT	DAYS	-0.12	-0.06	0.57				
STRP	RT.L	-0.03	0.10	-0.11	0.07			
LEAF	RUST	-0.27	-0.06	-0.71	-0.60	0.16		
PLNT	HT	0.21	0.25	0.30	0.21	0.30	-0.17	
1000	G.W.	0.57	0.40	-0.07	-0.17	-0.10	0.04	0.45

P.I.P.A.

LATITUDE	13 17'N	DATE PLANTED	11/20/77	NITROGEN	APPLIED
LONGITUDE	86 11'W	DATE HARVESTED	3/ 7/78	PHOSPHORUS	APPLIED
ELEVATION	1000 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL.
INSECT DAMAGE
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	MAT DAYS	PLNT HT	LODG %
29	PLICKER"S"	MEXICO	1647	106	63	5
33	GIZA155	EGYPT	1414	106	81	4
40	E.DAKARU	URUGUAY	1293	106	80	7
10	MONCHO"S"	MEXICO	1284	102	73	5
42	H-RA(2)F(2)	INIA/MEX	1262	106	70	4
2	BUTTE-ND519	U.S.A.	1261	97	74	8
28	NAOFEN	CHILE	1258	106	68	3
21	ANTIZANA	ECUADOR	1251	97	64	4
44	EMU"S"	MEXICO	1247	97	66	9
1	HORK"S"	MEXICO	1220	97	73	10
32	DOUGGA	TUNISIA	1189	106	60	10
15	MAPACHE (TRITICALE)	MEXICO	1188	103	75	3
43	PJ-GB X NAI66	PAKISTAN	1163	97	59	5
19	CHIROCA"S"	MEXICO	1140	88	67	8
12	CUCKOO"S"	MEXICO	1139	97	65	4
48	YECORATO "S"	INIA/MEX	1113	97	55	5
18	NACOZARI76	MEXICO	1099	97	59	6
13	SIETE CERROS	MEXICO	1099	91	63	6
17	TESOPACO"S"	MEXICO	1090	106	78	6
16	SOLTANE	TUNISIA	1084	106	75	7
3	NACOZARI"S"	MEXICO	1071	97	60	5
35	TANORI71	MEXICO	1052	88	61	8
45	IAS54	BRAZIL	1045	106	76	4
27	CONDOR"S"	AUSTRALIA	1044	106	53	9
31	GLENLEA	CANADA	1003	106	83	6
25	ANZA	U.S.A.	994	97	50	7
9	MAGPIE"S"	MEXICO	988	97	64	7
30	ABU-GHRAIB3	IRAQ	969	97	68	7
49	INIA66	MEXICO	964	97	67	5
20	CHOLI"S"	CHILE/MEX ***	957	97	61	6
46	BULBUL	PAKISTAN	924	88	68	3
14	S331-NOR67	INDIA/LEB	912	94	73	7
5	OLLANTA	PERU	908	80	81	8
24	MEX ALI75 (DURUM)	MEXICO	905	106	67	5
38	MN7083	U.S.A.	874	88	66	14
11	PAVON"S"	MEXICO	869	103	70	3
4	PAVON 76	MEXICO	863	87	67	8
26	NACOZARI"S"	MEXICO	837	89	63	5
23	COCORAQUE75	MEXICO	820	106	50	5
6	Y50E-KAL(3)	MEXICO	813	83	65	5
34	TORIM73	MEXICO	808	80	48	4
36	UP301 X SON64-PI62	INDIA/LEB	788	74	59	7
39	SONALIKA	INDIA	770	88	67	11
50	LOCAL CHECK		765	88	70	5
47	M.J.INTA	ARGENTINA	759	88	75	6
7	PAVON"S"	MEXICO	688	94	61	3
22	JUPATECO73	MEXICO	658	97	61	8
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	638	97	62	4
37	KAL-BB	MEXICO	613	88	43	7
		GRAND MEAN	1015.2	96.4	66.4	6.2
		STANDARD ERROR OF GRAND MEAN	28.1		0.5	0.3
		COEFFICIENT OF VARIATION AS PC	33.6		9.1	54.6
		LSD VARIETY MEANS 5 PC	542.3		9.7	5.5

CORRELATIONS

YIELD	KG/HA			
MAT	DAYS	0.54		
PLNT	HT	0.34	0.27	
LODG	%	-0.07	-0.25	-0.05

DOBRUDJA
I.TODOROV

LATITUDE	043 34'N	DATE PLANTED	3/15/78	NITROGEN	APPLIED
LONGITUDE	027 48'E	DATE HARVESTED	7/25/78	PHOSPHORUS	APPLIED
ELEVATION	0236 M.ABOVE S.L.	AMOUNT OF MOISTURE	525 MM	POTASSIUM	--

NORMAL SOWING DATE. WEATHER NORMAL.
DISEASE DEVELOPMENT NOT REPORTED. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: SADOVO 1

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
36	UP301 X SON64-PI62	INDIA/LEB	2766	153	185	72
27	CONDOR"S"	AUSTRALIA	2666	157	191	87
20	CHOLI"S"	CHILE/MEX	2633	154	185	70
26	NACOZARI"S"	MEXICO	2633	156	186	82
21	ANTIZANA	ECUADOR	2433	155	186	76
18	NACOZARI76	MEXICO	2400	155	186	65
5	OLLANTA	PERU	2366	152	186	92
19	CHIROCA"S"	MEXICO	2300	158	196	73
12	CUCKOO"S"	MEXICO	2300	154	193	68
30	ABU-GHRAIB3	IRAQ	2266	155	186	70
29	FLICKER"S"	MEXICO	2266	156	186	65
1	HORK"S"	MEXICO	2200	156	195	72
47	M.J.INTA	ARGENTINA	2200	155	186	73
45	IAS54	BRAZIL	2166	156	193	84
35	TAMORI71	MEXICO	2133	153	186	69
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2133	154	186	67
23	COCORAQUE75	MEXICO	2100	154	186	69
16	SOLTANE	TUNISIA	2100	154	186	79
4	PAVON 76	MEXICO	2066	156	186	75
24	MEXICALI75 (DURUM)	MEXICO	2033	155	186	79
46	BULBUL	PAKISTAN	2000	156	186	80
6	Y50E-KAL(3)	MEXICO	2000	157	193	77
13	SIETE CERROS	MEXICO	1966	157	186	65
14	S331-NOR67	INDIA/LEB	1933	159	195	75
32	DOUGGA	TUNISIA	1933	157	195	72
7	PAVON"S"	MEXICO	1866	157	186	73
17	TESOPACO"S"	MEXICO	1833	154	186	78
33	GIZA155	EGYPT	1833	154	197	85
44	EMU"S"	MEXICO	1800	156	194	72
38	MN7003	U.S.A.	1733	156	195	75
22	JUPATECO73	MEXICO	1733	155	186	70
34	TORIM73	MEXICO	1733	155	186	49
39	SONALIKA	INDIA	1667	153	186	78
28	NAOFEN	CHILE	1667	159	196	68
37	KAL-BB	MEXICO	1600	156	186	52
42	H-RA(2)F(2)	INIA/MEX	1600	156	195	70
43	PJ-GB X NAI66	PAKISTAN	1567	157	196	67
11	PAVON"S"	MEXICO	1533	157	194	76
25	ANZA	U.S.A.	1500	157	186	65
15	MAPACHE (TRITICALE)	MEXICO	1500	155	197	77
10	MONCHO"S"	MEXICO	1500	156	186	77
31	GLENLEA	CANADA	1467	159	195	92
9	MAGPIE"S"	MEXICO	1467	154	186	56
2	BUTTE>ND519	U.S.A.	1333	157	196	100
48	YECORATO "S"	INIA/MEX	1333	155	186	57
40	E.DAKARU	URUGUAY	1033	156	197	90
49	INIA66	MEXICO	1033	154	186	63
50	LOCAL CHECK		-	-	-	-
3	NACOZARI"S"	MEXICO	-	155	193	71
		GRAND MEAN	1921.0	155.6	189.6	73.4

STANDARD ERROR OF GRAND MEAN
COEFFICIENT OF VARIATION AS PC
LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD	KG/HA			
FLOW	DAYS	-0.23		
MAT	DAYS	-0.31	0.53	
PLNT	HT	0.04	0.12	0.38

STUPICE
P.BARTOS ET AL
LATITUDE 040 05'N
LONGITUDE 014 26'E
ELEVATION M.ABOVE S.L.

DATE PLANTED 3/29/78
DATE HARVESTED 9/ 3/78
AMOUNT OF MOISTURE 402 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
COOL AND RAINY DURING MATURING PERIOD.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: ST-109-76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	POWD %
18	NACOZARI76	MEXICO	7825	75	72	90	40	11
50	LOCAL CHECK		7655	76	80	95	52	44
19	CHIROCA"S"	MEXICO	7284	70	78	100	46	56
26	NACOZARI"S"	MEXICO ***	6601	75	72	90	46	11
25	ANZA	U.S.A.	6257	75	76	85	45	11
29	FLICKER"S"	MEXICO	5992	71	72	90	48	67
46	BULBUL	PAKISTAN	5983	80	73	100	50	11
3	NACOZARI"S"	MEXICO	5957	77	71	85	46	11
14	S331-NOR67	INDIA/LEB	5746	76	79	100	50	11
13	SIETE CERROS	MEXICO	5718	74	75	90	40	11
24	MEXICALI75 (DURUM)	MEXICO	5675	75	72	90	61	11
27	CONDOR"S"	AUSTRALIA	5575	76	76	80	46	11
11	PAVON"S"	MEXICO	5564	78	74	80	52	11
20	CHOLI"S"	CHILE/MEX	5540	69	71	85	45	11
12	CUCKOO"S"	MEXICO	5494	77	72	85	40	56
7	PAVON"S"	MEXICO	5451	76	77	80	44	11
17	TESOPACO"S"	MEXICO	5314	76	69	90	53	56
30	ABU-GHRAIB3	IRAQ	5303	77	71	85	42	56
32	DOUGGA	TUNISIA	5272	80	76	85	46	11
37	KAL-BB	MEXICO	5237	76	73	70	47	11
6	Y50E-KAL(3)	MEXICO	5222	76	76	95	55	11
39	SONALIKA	INDIA	5118	74	70	90	62	56
1	HORK"S"	MEXICO	4966	75	73	90	42	11
10	MONCHO"S"	MEXICO	4920	73	73	85	52	11
44	EMU"S"	MEXICO	4890	75	73	90	50	11
16	SOLTANE	TUNISIA	4703	74	71	90	49	11
22	JUPATECO73	MEXICO	4738	77	71	90	48	11
42	H-RA(2)F(2)	INIA/MEX	4729	71	73	90	56	56
2	BUTTE-ND519	U.S.A.	4618	77	72	100	45	11
31	GLENLEA	CANADA	4520	74	79	115	51	11
28	NAOPEN	CHILE	4487	76	79	90	48	11
47	M.J.INTA	ARGENTINA	4477	75	73	85	51	11
15	MAPACHE (TRITICALE)	MEXICO	4440	67	72	100	53	11
9	MAGPIE"S"	MEXICO	4396	76	72	70	47	67
38	MN7[illegible]	U.S.A.	4381	75	72	95	48	11
21	ANTIZANA	ECUADOR	4331	76	71	85	54	11
36	UP301 X SON64-PI62	INDIA/LEB	4313	75	69	85	48	11
43	PJ-GB X NAI66	PAKISTAN	4222	77	76	90	48	11
35	TANORI71	MEXICO	4164	76	[illegible]8	75	50	67
40	E.DAKARU	URUGUAY	4131	75	73	105	43	11
33	GIZA155	EGYPT	4111	69	70	100	51	11
4	PAVON 76	MEXICO	4109	76	72	90	47	56
5	OLLANTA	PERU	4101	74	69	100	49	11
49	INIA66	MEXICO	3855	77	69	85	49	56
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3839	75	[illegible]	80	49	56
23	COCORAQUE75	MEXICO	3750	74	71	75	45	11
34	TORIM73	MEXICO	3709	76	70	70	47	11
48	YECORATO "S"	INIA/MEX	3683	71	71	70	49	56
45	IAS54	BRAZIL	2590	75	73	100	47	11
		GRAND MEAN	5000.9	75.1	72.8	88.6	48.6	24.3
		STANDARD ERROR OF GRAND MEAN	55.4	0.0			0.2	
		COEFFICIENT OF VARIATION AS PC	13.4	1.5			4.9	
		LSD VARIETY MEANS 5 PC	1007.9	1.0			3.9	

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.20				
FLOW	DAYS	0.42	0.23			
PLNT	HT	0.12	-0.10	0.33		
1000	G.W.	-0.00	-0.23	-0.06	0.15	
POWD	%	0.00	-0.01	-0.26	-0.25	0.07

HANKKIJA P.B.I.
E. KIVI

LATITUDE	60 20'N	DATE PLANTED	5/17/78	NITROGEN	APPLIED
LONGITUDE	25 02'E	DATE HARVESTED	9/13/78	PHOSPHORUS	APPLIED
ELEVATION	38 M.ABOVE S.L.	AMOUNT OF MOISTURE	273 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
VERY DRY AT THE BEGINNING OF SUMMER.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT	LODG %	1000 G.W.	POWD %	SEPT NODO
46	BULBUL	PAKISTAN	4481	69	72	2	37	33	71
15	MAPACHE (TRITICALE)	MEXICO	4278	49	89	8	44	0	33
28	NAOPEN	CHILE	4185	66	81	0	38	25	63
19	CHIROCA"S"	MEXICO	4167	72	77	2	35	0	41
31	GLENLEA	CANADA	4093	71	88	18	51	17	71
14	S331-NOR67	INDIA/LEB	3870	64	81	5	38	8	78
10	MONCHO"S"	MEXICO ***	3630	64	76	2	47	33	41
11	PAVON"S"	MEXICO	3611	68	77	0	42	33	71
7	PAVON"S"	MEXICO	3574	59	77	0	39	17	71
40	E.DAKARU	URUGUAY	3556	69	85	3	37	33	63
6	Y50E-KAL(3)	MEXICO	3537	68	76	2	39	8	78
12	CUCKOO"S"	MEXICO	3463	68	68	3	31	42	78
39	SONALIKA	INDIA	3463	62	77	0	46	58	71
45	IAS54	BRAZIL	3426	62	90	13	39	25	41
4	PAVON 76	MEXICO	3426	65	74	0	41	25	63
32	DOUGGA	TUNISIA	3370	67	70	0	35	0	71
43	PJ-GB X NAI66	PAKISTAN	3333	66	74	0	35	0	78
1	HORK"S"	MEXICO	3296	68	83	0	35	33	63
30	ABU-GHRAIB3	IRAQ	3222	67	70	0	32	50	71
47	M.J.INTA	ARGENTINA	3167	66	89	0	47	25	63
17	TESOPACO"S"	MEXICO	3130	70	81	2	41	92	78
16	SOLTANE	TUNISIA	3093	69	79	0	45	25	78
29	FLICKER"S"	MEXICO	3093	45	70	2	32	33	78
44	EMU"S"	MEXICO	3074	66	73	2	37	8	71
25	ANZA	U.S.A.	3074	65	67	0	31	58	56
22	JUPATECO73	MEXICO	3018	65	74	0	37	25	56
26	NACOZARI"S"	MEXICO	3018	67	73	0	35	8	63
9	MAGPIE"S"	MEXICO	2944	64	66	2	40	75	56
27	CONDOR"S"	AUSTRALIA	2944	65	68	0	36	33	41
38	MN7003	U.S.A.	2926	67	75	3	38	17	63
18	NACOZARI76	MEXICO	2852	65	71	0	35	0	71
13	SIETE CERROS	MEXICO	2796	63	72	0	37	17	71
20	CHOLI"S"	CHILE/MEX	2778	59	68	0	34	67	78
3	NACOZARI"S"	MEXICO	2778	67	75	0	34	0	71
33	GIZA155	EGYPT	2704	59	80	3	37	25	71
21	ANTIZANA	ECUADOR	2704	66	77	0	40	8	56
37	KAL-BB	MEXICO	2685	54	59	0	30	17	85
34	TORIM73	MEXICO	2648	61	55	0	34	17	78
5	OLLANTA	PERU	2611	69	82	2	40	33	63
42	H-RA(2)F(2)	INIA/MEX	2463	54	72	0	45	42	56
2	BUTTE-ND519	U.S.A.	2370	72	82	2	38	8	56
49	INIA66	MEXICO	2333	66	67	0	37	50	78
35	TANORI71	MEXICO	2222	67	63	0	38	75	71
23	COCORAQUE75	MEXICO	2130	62	69	2	36	25	63
48	YECORATO "S"	INIA/MEX	1852	57	60	0	38	0	78
36	UP301 X SON64-PI62	INDIA/LEB	1537	61	62	0	39	8	56
24	MEXICALI75 (DURUM)	MEXICO	981	47	62	0	37	17	78
41	CNO"S" X NAD63-CHA"S"/SON-K1	ARGENTINA	500	58	69	0	36	25	78
50	LOCAL CHECK		-	-	-	-	-	-	-
		GRAND MEAN	3008.5	63.7	73.8	1.6	38.0	26.7	66.1
		STANDARD ERROR OF GRAND MEAN	37.1	0.2	0.7		0.2		
		COEFFICIENT OF VARIATION AS PC	14.0	3.2	11.7		6.0		
		LSD VARIETY MEANS 5 PC	722.3	3.3	14.0		3.7		

CORRELATIONS

YIELD KG/HA							
TEST	WT	0.36					
PLNT	HT	0.55	0.32				
LODG	%	-0.36	0.00	0.52			
1000	G.W.	0.21	0.11	0.53	0.38		
POWD	%	-0.04	0.08	-0.11	-0.10	0.05	
SEPT	NODO	-0.26	-0.07	-0.37	-0.24	-0.28	0.10

P.B.I.
E.A.SKORDA

LATITUDE	040 38'N	DATE PLANTED	11/ 7/77	NITROGEN	APPLIED
LONGITUDE	022 57'E	DATE HARVESTED	6/15/78	PHOSPHORUS	APPLIED
ELEVATION	0010 M.ABOVE S.L.	AMOUNT OF MOISTURE	353 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
HOT AND DRY WINDS FOR SEVERAL DAYS DURING MAY.
NEGLIGIBLE INSECT AND BIRD DAMAGE. WEED CONTROL BY 2,4-D
LOCAL CHECK: G-07783.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.	POWD %
15	MAPACHE (TRITICALE)	MEXICO	6282	67	142	203	0	0	123	39	0
35	TANORI71	MEXICO	5923	82	141	199	0	30MS	105	41	78
38	MN7083	U.S.A.	5756	81	147	203	10MR	0	103	42	78
49	INIA66	MEXICO	5731	82	139	201	5MR	20MS	112	45	93
9	MAGPIE"S"	MEXICO	5711	79	143	200	10MR	10MS	103	37	70
12	CUCKOO"S"	MEXICO	5564	77	146	201	20MR	10MS	110	29	93
34	TORIM73	MEXICO	5538	81	145	199	0	20MS	108	38	85
13	SIETE CERROS	MEXICO	5449	75	155	201	60MR	10MS	112	26	81
32	DOUGGA	TUNISIA	5429	77	155	204	0	20MS	119	32	67
29	FLICKER"S"	MEXICO	5416	75	150	200	10MR	20MS	112	32	89
24	MEXICALI75 (DURUM)	MEXICO	5275	76	148	203	5MR	10MS	107	48	85
39	SONALIKA	INDIA	5263	80	139	201	40MR	30MS	118	51	96
43	PJ-GB X NAI66	PAKISTAN	5205	77	152	201	5MR	20MS	109	31	96
30	ABU-GHRAIB3	IRAQ	5128	77	146	199	10MR	10MS	111	31	89
21	ANTIZANA	ECUADOR	5128	79	144	199	30MR	30MS	109	42	81
22	JUPATECO73	MEXICO	5096	81	142	199	0	0	113	38	74
18	NACOZARI76	MEXICO	5064	81	148	199	10MR	----	110	39	63
28	NAOFEN	CHILE	5032	78	156	204	20MR	30MS	110	34	70
19	CHIROCA"S"	MEXICO	4961	79	150	203	0	----	115	33	78
27	CONDOR"S"	AUSTRALIA	4949	78	154	203	0	10MS	103	30	85
44	EMU"S"	MEXICO	4929	79	148	201	5MR	0	110	37	96
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	4897	81	147	201	5MR	30MS	119	43	100
50	LOCAL CHECK		4884	78	156	204	15MR	10MS	101	38	100
36	UP301 X SON64-PI62	INDIA/LEB	4820	79	143	199	5MR	20MS	109	40	93
11	PAVON"S"	MEXICO	4820	77	153	202	10MR	30MS	99	30	89
5	OLLANTA	PERU	4775	78	141	199	5MR	----	125	35	55
2	BUTTE-ND519	U.S.A.	4763	81	150	204	20MR	30MS	134	35	33
17	TESOPACO"S"	MEXICO	4705	78	147	200	5MR	----	122	34	81
3	NACOZARI"S"	MEXICO	4686	78	148	200	20MR	10MS	107	32	89
6	Y50E-KAL(3)	MEXICO	4686	74	157	200	15MR	----	120	23	89
10	MONCHO"S"	MEXICO	4628	77	151	202	10MR	20MS	111	37	89
25	ANZA	U.S.A.	4622	80	153	201	10MR	60MS	100	29	78
4	PAVON 76	MEXICO	4590	77	152	202	5MR	10MS	105	29	96
47	M.J.INTA	ARGENTINA	4577	80	148	201	20MR	40MS	115	40	96
1	HORK"S"	MEXICO	4525	77	154	201	10MR	30MS	114	27	100
48	YECORATO "S"	INIA/MEX ***	4487	78	146	201	0	50MS	99	36	100
7	PAVON"S"	MEXICO	4404	77	155	200	15MR	70MS	114	32	82
45	IAS54	BRAZIL	4346	78	150	203	10MR	40MS	122	30	93
20	CHOLI"S"	CHILE/MEX	4327	75	148	200	0	----	110	29	81
31	GLENLEA	CANADA	4314	80	156	205	15MR	30MS	124	40	55
46	BULBUL	PAKISTAN	4314	77	151	200	20MR	60MS	120	28	82
40	E.DAKARU	URUGUAY	4308	79	153	204	5MR	10MS	128	32	78
37	KAL-BB	MEXICO	4308	72	152	201	0	30MS	108	30	96
26	NACOZARI"S"	MEXICO	4295	78	150	199	0	----	108	33	89
23	COCORAQUE75	MEXICO	4275	80	139	199	0	10MS	95	40	85
42	H-RA(2)F(2)	INIA/MEX	4128	73	152	200	10MR	40MS	113	33	100
16	SOLTANE	TUNISIA	4077	80	147	200	5MR	10MS	111	42	81
33	GIZA155	EGYPT	3782	78	150	203	5MR	30MS	124	37	100
14	S331-NOR67	INDIA/LEB	3115	67	157	203	0	10MS	117	25	89
		GRAND MEAN	4842.6	77.7	148.9	201.2	4.1	27.8	112.3	35.1	82.8

STANDARD ERROR OF GRAND MEAN 73.1
COEFFICIENT OF VARIATION AS PC 18.3
LSD VARIETY MEANS 5 PC 1436.3

CORRELATIONS

YIELD	KG/HA							
TEST	WT	0.21						
FLOW	DAYS	-0.43	-0.36					
MAT	DAYS	-0.08	-0.17	0.54				
LEAF	RUST	0.07	-0.03	0.11	0.04			
STEM	RUST	-0.35	0.00	0.35	-0.06	0.28		
PLNT	HT	-0.16	-0.12	0.11	0.30	0.06	-0.03	
1000	G.W.	0.31	0.49	-0.67	-0.07	0.15	-0.18	-0.11
POWD	%	-0.33	0.15	0.13	-0.24	0.23	0.21	-0.39 -0.09

S.RAJKI ET AL
LATITUDE 047 21'N
LONGITUDE 018 49'E
ELEVATION 0150 M.ABOVE S.L.

DATE PLANTED 4/ 1/78
DATE HARVESTED 8/ 1/78
AMOUNT OF MOISTURE 255 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
FAIRLY COOL THROUGHOUT THE PERIOD OF VEGETATIVE GROWTH.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: FERTODI 66

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
15	MAPACHE (TRITICALE)	MEXICO	5908	67	55	95	110	46
19	CHIROCA*S*	MEXICO	5186	79	57	98	97	35
11	PAVON*S*	MEXICO ***	4997	80	56	96	95	42
4	PAVON 76	MEXICO	4812	81	55	96	92	44
26	NACOZARI*S*	MEXICO	4796	78	55	96	90	37
7	PAVON*6*	MEXICO	4576	78	57	97	97	38
46	BULBUL	PAKISTAN	4515	78	56	97	103	35
3	NACOZARI*S*	MEXICO	4495	77	55	95	87	35
1	HORK*S*	MEXICO	4417	81	56	96	88	36
6	Y50E-KAL(3)	MEXICO	4385	75	57	98	100	36
18	NACOZARI76	MEXICO	4378	77	56	96	87	38
22	JUPATECO73	MEXICO	4234	79	53	96	89	37
38	MN7083	U.S.A.	4125	79	54	94	87	44
13	SIETE CERROS	MEXICO	4040	76	57	97	94	34
47	M.J.INTA	ARGENTINA	4031	81	54	97	90	41
10	MONCHO*S*	MEXICO	4017	79	55	97	92	45
30	ABU-GHRAIB3	IRAQ	3956	77	54	96	92	31
12	CUCKOO*S*	MEXICO	3950	77	54	95	87	38
50	LOCAL CHECK		3937	69	56	98	94	40
31	GLENLEA	CANADA	3903	73	57	99	118	47
9	MAGPIE*6*	MEXICO	3836	78	52	95	80	40
33	GIZA155	EGYPT	3764	79	54	97	103	46
35	TANORI71	MEXICO	3756	78	51	94	85	40
29	FLICKER*S*	MEXICO	3754	75	56	96	85	35
39	SONALIKA	INDIA	3747	79	52	96	90	46
24	MEXICALI75 (DURUM)	MEXICO	3733	75	54	96	87	40
49	INIA66	MEXICO	3691	80	51	95	85	41
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	3678	79	52	94	82	42
20	NAOFEN	CHILE	3652	76	58	98	93	36
17	TESOPACO*S*	MEXICO	3635	79	53	95	93	41
36	UP301 X SON64-PI62	INDIA/LEB	3636	78	52	94	83	41
45	IAS54	BRAZIL	3607	76	55	96	91	34
25	ANZA	U.S.A.	3590	77	56	98	77	36
42	H-RA(2)F(2)	INIA/MEX	3589	74	56	95	88	45
2	BUTTE-ND519	U.S.A.	3509	80	54	98	103	41
5	OLLANTA	PERU	3406	78	52	94	107	39
44	EMU*S*	MEXICO	3402	79	56	98	88	39
40	E.DAKARU	URUGUAY	3369	78	54	98	100	37
32	DOUGGA	TUNISIA	3305	76	59	97	82	33
23	COCORAQUE75	MEXICO	3230	77	52	94	80	36
27	CONDOR*S*	AUSTRALIA	3219	75	56	98	77	36
28	CHOLI*S*	CHILE/MEX	3205	75	53	96	82	37
48	YECORATO *S*	INIA/MEX	3195	77	54	97	80	37
16	SOLTANE	TUNISIA	3174	81	52	95	90	39
43	PJ-GB X NAI66	PAKISTAN	3161	75	57	95	90	32
21	ANTIZANA	ECUADOR	2998	78	54	97	92	38
37	KAL-BB	MEXICO	2721	69	56	94	68	27
34	TORIM73	MEXICO	2716	77	52	94	65	35
14	S331-NOR67	INDIA/LEB	2631	69	57	97	88	32
		GRAND MEAN	3928.1	76.9	54.7	96.1	98.0	38.4
		STANDARD ERROR OF GRAND MEAN	38.7	0.1			0.4	0.2
		COEFFICIENT OF VARIATION AS PC	12.3	1.7			5.2	6.7
		LSD VARIETY MEANS 5 PC	761.4	2.2			7.7	4.2

CORRELATIONS

YIELD KG/HA						
TEST WT	0.12					
FLOW DAYS	0.21	-0.35				
MAT DAYS	0.10	0.00	0.62			
PLNT HT	0.46	0.09	0.21	0.43		
1000 G.W.	0.29	0.17	-0.26	0.06	0.38	

AGR UNIV NORWAY
K.RINGLUND
LATITUDE 060 00'N
LONGITUDE 011 00'E
ELEVATION 3090 M.ABOVE S.L.

DATE PLANTED 5/ 5/78
DATE HARVESTED 9/13/78
AMOUNT OF MOISTURE 300 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: FUNAR

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.
50	LOCAL CHECK		3179	80	58	85	40
28	NAOFEN	CHILE	3178	76	61	71	35
3	NACOZARI"S"	MEXICO ***	2532	78	55	64	38
45	IAS54	BRAZIL	2478	76	60	73	38
15	MAPACHE (TRITICALE)	MEXICO	2452	62	55	79	39
26	NACOZARI"S"	MEXICO	2278	79	56	66	37
6	Y50E-KAL(3)	MEXICO	2242	77	61	71	36
29	FLICKER"S"	MEXICO	2197	71	60	59	33
47	M.J.INTA	ARGENTINA	2153	76	59	72	39
19	CHIROCA"S"	MEXICO	2124	77	60	69	35
46	BULBUL	PAKISTAN	2106	76	60	73	31
2	BUTTE-ND519	U.S.A.	2087	79	53	75	41
13	SIETE CERROS	MEXICO	2084	75	61	62	34
18	NACOZARI76	MEXICO	2081	76	54	63	36
43	PJ-GB X NAI66	PAKISTAN	2039	74	61	62	30
32	DOUGGA	TUNISIA	2018	74	62	60	32
21	ANTIZANA	ECUADOR	1959	77	56	60	43
1	HORK"S"	MEXICO	1940	77	59	60	31
22	JUPATECO73	MEXICO	1852	78	54	58	37
38	MN7083	U.S.A.	1845	78	55	66	39
44	FMU"S"	MEXICO	1822	79	60	62	44
16	SOLTANE	TUNISIA	1800	77	55	68	41
10	MONCHO"S"	MEXICO	1720	74	59	66	43
9	MAGPIE"S"	MEXICO	1672	77	55	58	43
40	E.DAKARU	URUGUAY	1620	74	56	74	35
14	S331-NOR67	INDIA/LEB	1573	70	62	64	32
42	H-RA(2)F(2)	INIA/MEX	1573	71	58	65	41
31	GLENLEA	CANADA	1555	72	61	89	47
20	CHOLI"S"	CHILE/MEX	1550	75	54	60	38
4	PAVON 76	MEXICO	1534	78	56	64	37
36	UP301 X SON64-PI62	INDIA/LEB	1437	75	52	57	42
12	CUCKOO"S"	MEXICO	1435	76	56	59	30
7	PAVON"S"	MEXICO	1433	74	61	66	32
34	TORIM73	MEXICO	1314	73	54	46	32
5	OLLA A	PERU	1310	75	53	71	39
37	KAL-BB	MEXICO	1169	71	60	46	30
35	TANORI71	MEXICO	1164	75	53	53	36
17	TESOPACO"S"	MEXICO	1149	76	54	66	40
11	PAVON"S"	MEXICO	1116	75	57	62	34
27	CONDOR"S"	AUSTRALIA	1100	73	61	53	33
25	ANZA	U.S.A.	1067	75	59	51	30
24	MEXICALI75 (DURUM)	MEXICO	1022	70	54	60	49
49	INIA66	MEXICO	1018	77	53	51	39
33	GIZA155	EGYPT	985	73	55	63	36
48	YECORATO "S"	INIA/MEX	985	69	54	44	42
39	SONALIKA	INDIA	976	75	54	60	44
23	COCORAQUE75	MEXICO	868	73	54	52	40
30	ABU-GHRAIB3	IRAQ	842	74	55	59	30
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	705	-	53	54	45
		GRAND MEAN	1680.6	74.9	56.9	63.1	37.4
		STANDARD ERROR OF GRAND MEAN	25.5			0.3	0.2
		COEFFICIENT OF VARIATION AS PC	18.4			5.3	5.0
		LSD VARIETY MEANS 5 PC	501.5			5.5	3.0

CORRELATIONS

YIELD	KG/HA				
TEST	WT	0.28			
FLOW	DAYS	0.41	-0.07		
PLNT	HT	0.62	0.13	0.27	
1000	G.W.	-0.08	0.02	-0.43	0.22

RADZIKOW
S. STARZYCKI
LATITUDE 052 12'N
LONGITUDE 029 39'E
ELEVATION 0090 M.ABOVE S.L.

DATE PLANTED 4/ 3/78
DATE HARVESTED 8/25/78
AMOUNT OF MOISTURE 330 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION POOR.
SPRING WAS COLD AND VERY WET, SUMMER VERY RAINY.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: YARA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	LEAF RUST	PLNT HT	1000 G.W.	POWD %	SEPT TRIT
9	MAGPIE*S*	MEXICO	4437	76	30MS	70	49	82	63
18	NACOZARI76	MEXICO	4409	77	0	79	45	26	37
45	IAS54	BRAZIL	4309	76	0	99	43	29	37
28	NAOPEN	CHILE	4282	75	0	85	42	0	18
37	KAL-BB	MEXICO	4237	76	0	58	41	0	71
12	CUCKOO*S*	MEXICO	4109	78	40MS	75	41	30	82
47	M.J.INTA	ARGENTINA	4098	79	0	91	52	11	52
19	CHIROCA*S*	MEXICO	4048	77	0	84	42	0	26
11	PAVON*S*	MEXICO	4026	76	0	82	47	15	52
7	PAVON*S*	MEXICO	4004	76	0	80	42	33	37
1	HORK*S*	MEXICO	3993	77	0	71	41	19	44
2	BUTTE-ND519	U.S.A.	3987	78	0	93	48	11	33
13	SIETE CERROS	MEXICO	3987	76	40MS	80	40	0	52
4	PAVON 76	MEXICO	3954	77	0	84	46	19	40
26	NACOZARI*S*	MEXICO	3915	76	0	81	42	11	59
6	Y53E-KAL(3)	MEXICO	3804	78	30MS	86	43	0	60
3	NACOZARI*S*	MEXICO	3754	76	0	78	41	26	41
29	FLICKER*S*	MEXICO	3721	71	0	76	47	45	56
54	TORIM73	MEXICO	3671	76	0	62	48	0	63
21	ANTIZANA	ECUADOR	3665	76	0	81	49	0	59
35	TANORI71	MEXICO	3660	76	0	78	49	15	63
16	SOLTANE	TUNISIA	3632	78	0	83	48	0	74
56	UP301 X SON64-PI62	INDIA/LEB	3621	74	0	75	47	0	48
43	PJ-GB X NAI66	PAKISTAN	3599	76	0	80	45	26	44
15	MAPACHE (TRITICALE)	MEXICO	3565	66	0	99	46	0	22
31	GLENLEA	CANADA	3549	74	0	116	48	0	0
42	H-RA(2)P(2)	INIA/MEX ***	3426	70	0	77	53	48	18
17	TESOPACO*S*	MEXICO	3415	76	0	89	47	19	71
50	LOCAL CHECK		3382	75	10MR	94	37	0	89
25	ANZA	U.S.A.	3376	77	50S	69	45	0	63
5	OLLANTA	PERU	3282	74	20MS	90	37	0	82
23	COCORAQUE75	MEXICO	3177	75	0	68	45	0	78
22	JUPATECO73	MEXICO	3171	77	0	82	42	0	78
10	MONCHO*S*	MEXICO	3027	71	0	80	52	15	26
32	DOUGGA	TUNISIA	2971	75	0	74	38	0	33
49	INIA66	MEXICO	2960	77	0	73	51	41	67
44	EMU*S*	MEXICO	2888	76	0	78	48	11	44
30	ABU-GHRAIB3	IRAQ	2821	77	70S	77	37	0	59
27	CONDOR*S*	AUSTRALIA	2793	77	30MS	65	41	15	41
58	MN7087	U.S.A.	2754	75	0	82	52	0	55
14	S331-NOR67	INDIA/LEB	2743	70	0	85	35	0	52
40	E.DAKARU	URUGUAY	2677	73	0	95	36	0	74
41	CHO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	2660	75	0	73	53	7	56
20	CHOLI*S*	CHILE/MEX	2660	70	20MS	72	40	15	48
46	BULBUL	PAKISTAN	2593	73	0	94	34	26	93
48	YECORATO *S*	INIA/MEX	2571	69	0	66	49	0	40
39	SONALIKA	INDIA	2560	76	0	78	52	0	48
33	GIZA155	EGYPT	2310	70	0	81	43	0	29
24	MEXICALI75 (DURUM)	MEXICO	1377	71	0	76	53	11	52
		GRAND MEAN	3421.1	74.8	5.9	80.5	44.7	12.3	51.6
		STANDARD ERROR OF GRAND MEAN	37.8	0.1		0.4	0.2		
		COEFFICIENT OF VARIATION AS PC	13.4	2.2		6.4	6.2		
		LSD VARIETY MEANS 5 PC	742.4	2.7		8.3	4.5		

CORRELATIONS

	YIELD KG/HA	TEST WT	LEAF RUST	PLNT HT	1000 G.W.	POWD %
TEST WT	0.49					
LEAF RUST	0.01	0.22				
PLNT HT	0.10	-0.09	-0.18			
1000 G.W.	-0.05	-0.01	-0.31	-0.14		
POWD %	0.29	0.04	0.00	-0.14	0.20	
SEPT TRIT	-0.11	0.28	0.25	-0.20	-0.29	-0.01

PBS ALENTEJO
M.T.BARRADAS ET AL
LATITUDE 038 54'N
LONGITUDE 007 09'W
ELEVATION 0208 M.ABOVE S.L.

DATE PLANTED 11/ 9/77
DATE HARVESTED 6/26/78
AMOUNT OF MOISTURE 611 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
PERSISTANT AND HIGH RAINFALL THROUGHOUT WINTER FROM HEADING TO MATURITY
COOL AND WET. WEED PROBLEMS.
LOCAL CHECK: MEXICANO 1481 X SIETE CERROS.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT
15	MAPACHE (TRITICALE)	MEXICO	3770	78	123	205	0	0	0	90	20	45	17
25	ANZA	U.S.A.	3745	79	139	205	0	0	60S	102	10	41	45
6	Y50E-KAL(3)	MEXICO	3496	82	140	207	0	30S	50S	99	20	48	56
4	PAVON 76	MEXICO	3360	82	134	205	5R	30S	0	99	20	42	56
27	CONDOR"S"	AUSTRALIA	3259	80	140	206	5MR	0	0	84	10	43	39
26	NACOZARI"S"	MEXICO	3155	78	133	204	TR	0	TMS	95	20	39	56
24	MEXICALI75 (DURUM)	MEXICO	3050	78	125	203	0	10S	0	90	30	56	33
36	UP301 X SON64-PI62	INDIA/LEB	3033	80	123	203	0	0	0	90	0	42	67
46	BULBUL	PAKISTAN	3000	82	133	204	10MR	40S	---	117	20	37	56
32	DOUGGA	TUNISIA	2955	82	137	205	TR	40S	0	90	10	39	50
18	NACOZARI76	MEXICO	2942	80	133	203	0	0	TR	85	30	39	67
28	NAOPEN	CHILE	2923	79	140	206	0	0	TR	99	10	41	33
3	NACOZARI"S"	MEXICO	2890	79	130	202	0	60S	TR	105	10	38	73
11	PAVON"S"	MEXICO	2889	83	134	206	5R	40S	0	99	10	44	56
20	CHOLI"S"	CHILE/MEX	2850	78	133	205	0	0	30S	92	20	30	73
21	ANTIZANA	ECUADOR	2846	81	122	206	0	20S	TR	86	10	46	45
7	PAVON"S"	MEXICO	2839	81	138	204	10MS	40S	0	105	10	43	50
43	PJ-GB X NAI66	PAKISTAN	2739	77	129	203	5S	80S	TMR	85	10	38	56
12	CUCKOO"S"	MEXICO	2646	77	122	204	5R	60S	60S	81	10	32	62
30	ABU-GHRAIB3	IRAQ	2644	79	122	206	30S	40S	50S	90	0	32	50
48	YECORATO "S"	INIA/MEX	2621	79	132	203	5MS	60S	---	70	0	38	67
2	BUTTE-ND519	U.S.A.	2619	80	134	205	10R	40S	0	119	50	39	45
44	EMU"S"	MEXICO	2439	81	135	204	0	0	TR	91	10	46	62
42	H-RA(2)F(2)	INIA/MEX	2435	76	137	204	5S	60S	TMR	93	20	40	56
19	CHIROCA"S"	MEXICO	2421	81	124	200	TR	0	0	90	20	34	73
1	HORK"S"	MEXICO	2366	77	134	206	30S	80S	TR	100	30	32	67
10	MONCHO"S"	MEXICO	2354	80	131	205	0	20S	TR	99	20	49	56
47	M.J.INTA	ARGENTINA	2344	76	132	202	40S	100S	---	100	10	41	62
38	MN7083	U.S.A. ***	2299	77	130	203	10S	60S	0	90	20	38	56
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2289	80	131	204	15S	80S	0	90	10	43	50
14	S331-NOR67	INDIA/LEB	2274	76	140	206	20S	60S	0	97	10	41	70
37	KAL-BB	MEXICO	2261	78	131	203	TR	30S	0	75	0	39	73
22	JUPATECO73	MEXICO	2234	77	120	204	15MS	70S	---	86	20	35	61
9	MAGPIE"S"	MEXICO	2206	77	123	203	5MS	40S	TMR	70	20	39	56
29	FLICKER"S"	MEXICO	2201	77	134	204	10MS	20S	0	86	0	40	62
16	SOLTANE	TUNISIA	2185	74	128	202	10S	50S	0	90	0	41	67
45	IAS54	BRAZIL	2155	79	135	205	5S	20S	0	89	20	40	62
13	SIETE CERROS	MEXICO	2102	75	139	206	15MS	100S	10S	95	0	36	70
39	SONALIKA	INDIA	1953	77	119	205	0	10S	20S	96	40	42	78
31	GLENLEA	CANADA	1935	81	141	207	0	0	0	104	40	45	56
17	TESOPACO"S"	MEXICO	1934	79	126	203	0	0	0	94	30	44	62
34	TORIM73	MEXICO	1746	79	124	203	0	0	0	64	0	36	67
40	E.DAKARU	URUGUAY	1700	76	140	208	TS	60S	0	120	20	37	62
49	INIA66	MEXICO	1693	79	120	204	0	0	TMS	93	30	39	67
50	LOCAL CHECK		1630	69	140	204	60S	100S	---	97	10	30	67
35	TANORI71	MEXICO	1609	78	120	204	0	0	TMR	75	10	36	70
5	OLLANTA	PERU	1517	77	123	203	0	0	40S	105	30	37	67
33	GIZA155	EGYPT	1475	78	136	208	0	0	0	106	20	40	56
23	COCORAQUE75	MEXICO	1323	77	117	203	0	30S	---	80	10	38	73
		GRAND MEAN	2476.6	78.3	130.7	204.6	5.9	32.2	7.5	93.0	15.9	40.1	58.9
		STANDARD ERROR OF GRAND MEAN	58.6	0.0						0.1			
		COEFFICIENT OF VARIATION AS PC	28.7	1.3						1.9			
		LSD VARIETY MEANS 5 PC	1151.8	1.7						2.8			

CORRELATIONS

YIELD	KG/HA									
TEST	WT	0.29								
FLOW	DAYS	0.24	0.10							
MAT	DAYS	0.06	0.21	0.40						
STRP	RT.L	-0.21	-0.50	0.18	-0.08					
STRP	RT.H	-0.13	-0.36	0.20	-0.16	0.67				
LEAF	RUST	0.21	-0.01	-0.09	0.11	0.05	-0.02			
PLNT	HT	0.13	0.06	0.44	0.40	0.08	0.08	0.05		
LODG	%	-0.08	0.10	-0.04	0.20	-0.19	-0.25	-0.06	0.46	
1000	G.W.	0.34	0.28	0.14	0.00	-0.41	-0.34	-0.23	0.12	0.20
SEPT	TR T	-0.57	-0.05	-0.15	-0.16	0.12	0.18	0.03	-0.21	-0.13 -0.46

FUNDULEA
N.SAULESCU

LATITUDE	044 03'N	DATE PLANTED	3/10/78	NITROGEN	APPLIED
LONGITUDE	024 10'E	DATE HARVESTED	7/15/78	PHOSPHORUS	APPLIED
ELEVATION	0066 M.ABOVE S.L.	AMOUNT OF MOISTURE	717 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. CHEMICAL CONTROL OF WEEDS.
LOCAL CHECK: RUBIN

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.	SEPT TRIT
15	MAPACHE (TRITICALE)	MEXICO	2873	65	75	104	30MR	---	105	32	-
48	YECORATO "S"	INIA/MEX ***	2493	79	71	100	---	60S	62	33	-
36	UP301 X SON64-PI62	INDIA/LEB	2345	76	70	99	---	---	76	29	-
4	PAVON 76	MEXICO	2304	78	76	105	---	---	84	31	-
42	H-RA(2)F(2)	INIA/MEX	2288	76	76	105	---	---	84	37	-
18	NACOZARI76	MEXICO	2252	77	77	106	---	20S	80	37	80
38	MN7083	U.S.A.	2215	78	73	102	---	---	81	35	-
3	NACOZARI"S"	MEXICO	2204	76	74	103	---	20S	76	28	-
28	NAOFEN	CHILE	2169	72	77	106	---	60S	84	33	-
6	Y50E-KAL(3)	MEXICO	2150	78	76	105	20S	---	88	29	10
11	PAVON"S"	MEXICO	2149	80	77	106	---	---	84	31	-
20	CHOLI"S"	CHILE/MEX	2128	75	74	103	40S	---	78	32	-
19	CHIROCA"S"	MEXICO	2120	80	76	105	---	---	91	29	10
26	NACOZARI"S"	MEXICO	2116	78	76	105	---	10MS	77	32	-
21	ANTIZANA	ECUADOR	2109	78	73	102	---	---	81	34	5
29	FLICKER"S"	MEXICO	2089	73	76	105	---	---	78	31	-
10	MONCHO"S"	MEXICO	2056	79	75	104	---	20S	82	39	-
24	MEXICALI75 (DURUM)	MEXICO	2026	72	72	101	---	---	80	38	-
9	MAGPIE"S"	MEXICO	2024	74	71	100	---	20S	73	29	20
7	PAVON"S"	MEXICO	2024	77	77	106	---	60S	87	27	40
27	CONDOR"S"	AUSTRALIA	2014	78	77	106	---	---	71	32	-
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	1993	77	70	100	---	60S	76	31	-
12	CUCKOO"S"	MEXICO	1979	74	73	102	---	10S	80	25	-
16	SOLTANE	TUNISIA	1979	77	72	101	---	---	82	34	80
13	SIETE CERROS	MEXICO	1965	74	76	105	---	---	81	27	60
45	IAS54	BRAZIL	1940	74	74	103	---	60S	94	31	-
5	OLLANTA	PERU	1935	74	71	100	---	---	98	28	20
35	TANORI71	MEXICO	1929	77	69	98	---	---	75	29	5
47	M.J.INTA	ARGENTINA	1921	78	72	103	---	---	83	32	-
49	INIA66	MEXICO	1859	76	69	98	---	---	73	28	60
30	ABU-GHRAIB3	IRAQ	1855	75	72	101	---	10S	78	25	-
1	HORK"S"	MEXICO	1821	76	75	104	---	---	86	26	-
25	ANZA	U.S.A.	1776	80	77	106	80S	40S	76	31	40
46	BULBUL	PAKISTAN	1760	77	75	104	---	60S	96	28	40
23	COCORAQUE75	MEXICO	1739	75	70	99	---	---	72	29	70
17	TESOPACO"S"	MEXICO	1725	74	72	101	---	---	86	31	-
22	JUPATECO73	MEXICO	1725	74	71	100	---	---	77	27	50
43	PJ-GB X NAI66	PAKISTAN	1715	76	78	106	---	---	79	27	-
37	KAL-BB	MEXICO	1715	71	73	102	---	---	62	23	-
33	GIZA155	EGYPT	1695	77	72	101	---	---	91	36	25
32	DOUGGA	TUNISIA	1669	77	77	105	---	---	82	28	10
44	EMU"S"	MEXICO	1657	77	76	105	---	---	82	32	-
39	SONALIKA	INDIA	1655	74	69	98	---	---	79	35	30
34	TORIM73	MEXICO	1632	73	71	100	---	---	60	27	-
2	BUTTE-ND519	U.S.A.	1577	81	75	104	---	10S	101	30	-
31	GLENLEA	CANADA	1530	78	77	105	---	5S	121	34	10
40	E.DAKARU	URUGUAY	1500	79	76	106	---	---	99	30	-
14	S331-NOR67	INDIA/LEB	1231	72	77	106	---	---	81	28	-
50	LOCAL CHECK		1212	69	81	110	5S	99S	126	25	40
		GRAND MEAN	1935.5	75.8	74.0	103.0	31.4	36.6	83.1	30.5	35.3
		STANDARD ERROR OF GRAND MEAN	18.4	0.2					0.3	0.2	
		COEFFICIENT OF VARIATION AS PC	11.6	2.7					4.6	7.0	
		LSD VARIETY MEANS 5 PC	362.4	3.3					6.2	3.0	

CORRELATIONS

YIELD	KG/HA								
TEST	WT	0.00							
FLOW	DAYS	-0.12	0.05						
MAT	DAYS	-0.11	0.07	0.99					
LEAF	RUST	-0.21	1.39	-0.24	-0.24				
STEM	RUST	-0.17	-0.49	0.27	0.32	-1.78			
PLNT	HT	-0.24	-0.11	0.48	0.47	-1.34	0.32		
1000	G.W.	0.36	0.27	-0.02	-0.01	0.40	-0.24	0.05	
SEPT	TRIT	0.03	-0.21	-0.06	-0.02	0.26	0.20	-0.31	0.07

JEREZ

LATITUDE	36 43'N	DATE PLANTED	12/22/77	NITROGEN	APPLIED
LONGITUDE	6 06'W	DATE HARVESTED	6/30/78	PHOSPHORUS	--
ELEVATION	21 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
HEAVY RAIN TOWARDS THE END OF SEASON.
MUCH BIRD DAMAGE. LOCAL CHECK NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
19	CHIROCA"S"	MEXICO	7763	103	155	110	40
18	NACOZARI76	MEXICO	7745	106	150	100	45
3	NACOZARI"S"	MEXICO	7519	106	154	95	43
4	PAVON 76	MEXICO	7518	106	158	100	41
15	MAPACHE (TRITICALE)	MEXICO	7392	106	151	110	49
7	PAVON"S"	MEXICO	7341	110	157	105	47
9	MAGPIE"S"	MEXICO	7289	96	149	87	43
24	MEXICALI75 (DURUM)	MEXICO	7030	100	149	100	64
10	MONCHO"S"	MEXICO	6993	111	150	107	55
11	PAVON"S"	MEXICO	6870	108	155	105	45
26	NACOZARI"S"	MEXICO	6852	103	153	100	45
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	6781	104	153	95	51
12	CUCKOO"S"	MEXICO	6752	96	152	105	34
20	CHOLI"S"	CHILE/MEX	6726	95	154	95	45
17	TESOPACO"S"	MEXICO	6707	95	151	110	40
48	YECORATO "S"	INIA/MEX	6638	108	157	85	42
29	FLICKER"S"	MEXICO	6585	111	155	100	43
42	H-RA(2)F(2)	INIA/MEX	6526	106	155	106	49
1	HORK"S"	MEXICO	6396	106	158	105	41
32	DOUGGA	TUNISIA	6378	110	164	100	37
30	ABU-GHRAIB3	IRAQ	6366	99	155	96	35
37	KAL-BB	MEXICO	6318	111	152	70	38
27	CONDOR"S"	AUSTRALIA	6318	112	157	85	37
25	ANZA	U.S.A.	6226	115	159	100	33
28	NAOPEN	CHILE	6093	108	159	105	41
14	S331-NOR67	INDIA/LEB ***	6044	114	159	110	52
33	GIZA155	EGYPT	5892	103	159	125	47
44	EMU"S"	MEXICO	5822	106	155	100	50
6	Y50E-KAL(3)	MEXICO	5785	108	159	105	49
22	JUPATECO73	MEXICO	5767	92	153	100	36
45	IAS54	BRAZIL	5696	106	158	105	49
38	MN7803	U.S.A.	5615	106	155	100	46
34	TORI[illegible]	MEXICO	5615	93	150	75	49
16	SOLTANE	TUNISIA	5585	96	152	105	41
35	TAMORI71	MEXICO	5537	92	151	98	50
36	UP301 X SON64-PI62	INDIA/LEB	5526	93	149	100	47
21	ANTIZANA	ECUADOR	5522	94	155	87	43
46	BULBUL	PAKISTAN	5174	94	155	106	30
5	OLLANTA	PERU	5092	96	153	120	45
39	SONALIKA	INDIA	5055	90	152	100	61
43	PJ-GB X NAI66	PAKISTAN	4937	103	155	86	46
2	BUTTE-ND519	U.S.A.	4863	106	162	110	41
23	COCORAQUE75	MEXICO	4737	93	151	85	44
31	GLENLEA	CANADA	4711	108	160	130	48
47	M.J.INTA	ARGENTINA	4699	103	155	108	50
40	E.DAKARU	URUGUAY	4215	108	166	122	39
13	SIETE CERROS	MEXICO	4177	96	151	97	34
50	LOCAL CHECK		4081	100	150	80	39
49	INIA66	MEXICO	3500	91	147	100	47
		GRAND MEAN	6015.7	102.5	154.7	100.6	44.5

STANDARD ERROR OF GRAND MEAN	69.5
COEFFICIENT OF VARIATION AS PC	14.0
LSD VARIETY MEANS 5 PC	1365.8

CORRELATIONS

YIELD KG/HA					
FLOW	DAYS	0.36			
MAT	DAY	-0.01	0.66		
PLNT	HT	-0.05	0.16	0.44	
1000	G.W.	0.06	-0.09	-0.21	0.17

I.N.I.A.
CEREAL STAFF

LATITUDE	040 26'N	DATE PLANTED	1/12/78	NITROGEN	APPLIED
LONGITUDE	003 51'W	DATE HARVESTED	8/ 3/78	PHOSPHORUS	APPLIED
ELEVATION	0499 M.ABOVE S.L.	AMOUNT OF MOISTURE	420 MM	POTASSIUM	APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
MILD, WET WINTER; COLD AND DAMP SPRING. YIELDS MUCH REDUCED BY HEAVY
ATTACK OF YELLOW RUST (NOT SHOWN IN TABLE BECAUSE WRONG SCALE USED).
LOCAL CHECK: T253 (DURUM)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	MAT DAYS	PLNT HT	SEPT NODO
15	MAPACHE (TRITICALE)	MEXICO	3415	117	109	15
39	SONALIKA	INDIA	3315	115	105	11
3	NACOZARI"S"	MEXICO	3126	119	92	15
9	MAGPIE"S"	MEXICO	3029	115	94	11
36	UP301 X SON64-PI62	INDIA/LEB	2971	115	97	11
12	CUCKOO"S"	MEXICO	2716	119	95	11
34	TORIM73	MEXICO	2681	117	80	18
4	PAVON 76	MEXICO	2595	123	97	26
44	EMU"S"	MEXICO	2561	120	97	11
42	H-RA(2)F(2)	INIA/MEX	2552	120	94	11
1	HORK"S"	MEXICO	2493	120	95	11
23	COCORAQUE75	MEXICO	2467	115	87	11
10	MONCHO"S"	MEXICO	2441	123	103	15
11	PAVON"S"	MEXICO	2439	122	102	26
48	YECORATO "S"	INIA/MEX	2384	119	74	22
26	NACOZARI"S"	MEXICO	2377	120	98	11
24	MEXICALI75 (DURUM)	MEXICO	2351	116	99	15
2	BUTTE-ND519	U.S.A.	2321	121	113	11
49	INIA66	MEXICO	2260	115	95	18
37	KAL-BB	MEXICO	2222	120	76	29
19	CHIROCA"S"	MEXICO ***	2168	121	107	11
30	ABU-GHRAIB3	IRAQ	2148	117	96	11
33	GIZA155	EGYPT	2105	118	110	11
18	NACOZARI76	MEXICO	2100	121	92	11
7	PAVON"S"	MEXICO	2085	123	102	15
14	S331-NOR67	INDIA/LEB	2068	125	107	22
20	CHOLI"S"	CHILE/MEX	2033	119	95	26
27	CONDOR"S"	AUSTRALIA	2024	120	80	15
32	DOUGGA	TUNISIA	2020	123	100	11
47	M.J.INTA	ARGENTINA	1961	118	103	15
6	Y50E-KAL(3)	MEXICO	1933	125	110	15
35	TANORI71	MEXICO	1933	114	95	15
25	ANZA	U.S.A.	1867	121	88	11
5	OLLANTA	PERU	1856	115	120	11
22	JUPATECO73	MEXICO	1769	117	95	18
46	BULBUL	PAKISTAN	1762	121	105	22
40	E.DAKARU	URUGUAY	1747	123	115	15
21	ANTIZANA	ECUADOR	1728	117	100	11
50	LOCAL CHECK		1708	116	89	26
13	SIETE CERROS	MEXICO	1675	125	100	26
45	IAS54	BRAZIL	1660	117	107	11
29	FLICKER"S"	MEXICO	1612	122	97	11
43	PJ-GB X NAI66	PAKISTAN	1555	122	90	15
38	MN7083	U.S.A.	1496	118	107	15
16	SOLTANE	TUNISIA	1457	117	97	11
17	TESOPACO"S"	MEXICO	1385	118	108	11
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	1177	116	96	15
31	GLENLEA	CANADA	1163	125	132	11
28	NAOFEN	CHILE	999	126	110	11
		GRAND MEAN	2120.7	119.4	99.1	15.0
		STANDARD ERROR OF GRAND MEAN	49.3			
		COEFFICIENT OF VARIATION AS PC	20.2			
		LSD VARIETY MEANS 5 PC	968.5			

CORRELATIONS

YIELD KG/HA			
MAT DAYS	-0.30		
PLNT HT	-0.27	0.28	
SEPT NODO	-0.00	0.18	-0.32

COGULLADA
J.COMENGE ET AL
LATITUDE 041 38'N
LONGITUDE 000 54'W
ELEVATION .0202 M.ABOVE S.L.

DATE PLANTED 12/ 9/78
DATE HARVESTED 7/15/78
AMOUNT OF MOISTURE 542 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: TALENTO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	PLNT HT	1000 G.W.	POWD %
15	MAPACHE (TRITICALE)	MEXICO	6962	138	194	----	---	100	40	48
18	NACOZARI76	MEXICO	6444	143	195	5MR	5MR	85	37	100
19	CHIROCA"S"	MEXICO	6370	147	203	15S	---	90	35	60
29	FLICKER"S"	MEXICO ***	6148	145	204	20S	10S	85	38	78
24	MEXICALI75 (DURUM)	MEXICO	6111	138	199	----	---	90	49	71
21	ANTIZANA	ECUADOR	6073	139	196	----	---	90	46	89
7	PAVON"S"	MEXICO	5814	147	206	25S	---	85	34	67
14	S331-NOR67	INDIA/LEB	5814	151	195	TRR	20MS	95	32	89
3	NACOZARI"B"	MEXICO	5777	139	194	TRR	---	85	31	70
12	CUCKOO"S"	MEXICO	5592	139	199	15S	---	90	37	85
27	CONDOR"S"	AUSTRALIA	5555	146	197	TRR	---	85	36	74
1	HORK"S"	MEXICO	5481	137	197	35S	---	100	34	48
30	ABU-GHRAIB3	IRAQ	5481	143	196	TRR	---	90	30	100
26	NACOZARI"B"	MEXICO	5407	144	198	TRR	---	85	39	85
32	DOUGGA	TUNISIA	5370	145	202	50S	20S	93	39	85
38	MN7003	U.S.A.	5305	143	197	30S	10S	95	37	67
10	MONCHO"S"	MEXICO	5259	144	192	TRR	---	90	40	82
2	BUTTE-ND519	U.S.A.	5222	137	195	10MS	15S	105	40	29
48	YECORATO "S"	INIA/MEX	5185	143	192	20MS	---	80	44	82
22	JUPATECO73	MEXICO	5148	141	195	65S	25S	95	38	74
50	LOCAL CHECK		5148	150	205	20MS	---	90	37	52
42	H-RA(2)F(2)	INIA/MEX	5111	143	198	TRR	---	95	43	100
23	COCORAQUE75	MEXICO	5074	138	194	----	---	70	44	78
43	PJ-GB X NAI66	PAKISTAN	5037	146	203	40S	10S	90	43	60
36	UP301 X SON64-PI62	INDIA/LEB	5000	139	198	5MR	---	85	43	70
6	Y50E-KAL(3)	MEXICO	5000	149	204	30S	30S	110	41	48
44	EMU"S"	MEXICO	4962	143	193	----	---	90	46	56
45	IAS54	BRAZIL	4925	143	202	5MR	---	90	38	82
35	TANORI71	MEXICO	4888	140	198	5MR	---	90	43	93
46	BULBUL	PAKISTAN	4814	144	195	60S	20S	95	40	82
4	PAVON 76	MEXICO	4814	143	204	15S	15S	80	35	100
39	SONALIKA	INDIA	4814	137	197	10MR	---	90	48	82
28	NAOFEN	CHILE	4777	145	203	5MR	---	100	38	85
5	OLI[illegible]TA	PERU	4740	136	200	TRR	---	110	40	78
40	E.[illegible]KARU	URUGUAY	4703	143	198	20S	10S	110	39	100
20	CHOLI"S"	CHILE/MEX	4703	136	191	5MR	---	90	33	82
9	MAGPIE"S"	MEXICO	4703	136	191	45S	5S	90	43	89
17	TESOPACO"S"	MEXICO	4703	139	195	----	---	90	41	82
25	ANZA	U.S.A.	4666	147	196	TRR	---	85	34	82
11	PAVON"S"	MEXICO	4629	146	203	30S	---	80	34	100
47	M.J.INTA	ARGENTINA	4592	140	199	40S	15S	90	39	89
37	KAL-BB	MEXICO	4555	148	194	30MS	---	65	33	78
49	INIA66	MEXICO	4555	137	191	5MR	---	85	43	89
13	SIETE CERROS	MEXICO	4370	147	200	65S	45S	100	35	78
16	SOLTANE	TUNISIA	4296	139	194	45S	25S	90	43	85
34	TORIM73	MEXICO	4111	141	192	10MR	---	75	43	85
31	GLENLEA	CANADA	3926	144	199	----	---	115	44	48
33	GIZA155	EGYPT	3777	141	197	----	---	100	41	82
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3555	143	200	40S	20S	95	48	82
		GRAND MEAN	5091.1	142.5	197.6	20.5	19.6	91.0	39.5	77.8
		STANDARD ERROR OF GRAND MEAN	36.0					0.0		0.4
		COEFFICIENT OF VARIATION AS PC	8.6					0.9		6.9
		LSD VARIETY MEANS 5 PC	700.4					1.3		0.7

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	0.01					
MAT	DAYS	0.68	0.42				
STRP	RT.L	-0.21	0.04	0.17			
STRP	RT.H	-0.44	0.34	0.19	0.52		
PLNT	HT	-0.10	-0.06	0.20	0.16	0.35	
1000	G.W.	-0.23	-0.47	-0.17	0.08	-0.09	0.12
POWD	%	-0.17	-0.02	-0.13	-0.16	-0.27	-0.37 -0.04

WEIBULLSHOLM PBI
G. SVENSSON

LATITUDE	55 55'N	DATE PLANTED	4/ 9/70	NITROGEN	APPLIED
LONGITUDE	12 50'E	DATE HARVESTED	8/30/70	PHOSPHORUS	APPLIED
ELEVATION	5 M.ABOVE S.L.	AMOUNT OF MOISTURE	159 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
VERY DRY DURING APRIL AND MAY; COOL AND WET IN JULY AND AUGUST
CHEMICAL CONTROL OF INSECTS.
LOCAL CHECK: WW TIMMO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	POWD %
50	LOCAL CHECK		7117	79	74	92	38	3
19	CHIROCA*S*	MEXICO ***	6105	80	70	88	38	2
27	CONDOR*S*	AUSTRALIA	6029	79	68	70	44	10
25	ANZA	U.S.A.	5867	79	69	70	41	13
26	NACOZARI*S*	MEXICO	5502	78	66	77	45	5
15	MAPACHE (TRITICALE)	MEXICO	5485	64	65	83	38	0
3	NACOZARI*S*	MEXICO	5434	81	66	72	43	5
28	NAOFEN	CHILE	5255	80	71	78	41	13
44	EMU*S*	MEXICO	5196	81	67	73	49	5
22	JUPATECO73	MEXICO	5102	79	66	73	46	3
38	MN7083	U.S.A.	5102	79	66	73	45	7
39	SONALIKA	INDIA	5017	78	64	73	56	5
18	NACOZARI76	MEXICO	4949	78	66	73	40	7
30	ABU-GHRAIB3	IRAQ	4940	79	65	72	38	7
21	ANTIZANA	ECUADOR	4932	80	66	75	45	3
45	BULBUL	PAKISTAN	4881	81	68	80	36	10
2	BUTTE-ND519	U.S.A.	4864	80	66	82	41	10
11	PAVON*S*	MEXICO	4830	81	68	77	44	10
14	S331-NOR67	INDIA/LEB	4821	76	71	83	39	2
12	CUCKOO*S*	MEXICO	4821	80	65	72	38	0
4	PAVON 76	MEXICO	4813	80	67	75	44	10
7	PAVON*S*	MEXICO	4808	80	68	80	39	7
1	HORK*S*	MEXICO	4779	80	67	70	37	5
13	SIETE CERROS	MEXICO	4762	77	69	75	36	3
6	Y50E-KAL(3)	MEXICO	4592	79	70	85	38	0
29	FLICKER*S*	MEXICO	4592	72	66	62	37	13
47	M.J.INTA	ARGENTINA	4566	80	65	75	47	5
20	CHOLI*S*	CHILE/MEX	4532	74	65	65	41	7
31	GLENLEA	CANADA	4498	78	72	97	45	5
33	GIZA155	EGYPT	4422	75	65	75	44	7
16	SOLTANE	TUNISIA	4345	79	65	72	45	0
32	DOUGGA	TUNISIA	4252	79	69	72	35	3
49	INIA66	MEXICO	4243	80	64	67	45	13
37	KAL-BB	MEXICO	4201	75	67	55	37	2
43	PJ-GB X NAI66	PAKISTAN	4167	78	70	77	37	5
34	TORIM73	MEXICO	4107	78	65	50	41	7
23	COCORAQUE75	MEXICO	4099	77	64	65	47	0
40	E.DAKARU	URUGUAY	4090	77	67	87	38	7
5	OLLANTA	PERU	4005	77	64	80	43	5
10	MONCHO*S*	MEXICO	3852	74	67	73	47	7
17	TESOPACO*S*	MEXICO	3852	79	65	75	47	17
42	H-RA(2)F(2)	INIA/MEX	3852	75	66	77	48	17
35	TANORI71	MEXICO	3801	78	64	60	42	12
36	UP301 X SON64-PI62	INDIA/LEB	3563	75	64	65	45	3
45	IAS54	BRAZIL	3503	76	66	82	39	23
48	YECORATO *S*	INIA/MEX	3495	75	65	53	46	12
9	MAGPIE*S*	MEXICO	3376	77	65	62	47	0
24	MEXICALI75 (DURUM)	MEXICO	3333	74	65	75	54	7
41	CNO*S* X NAI63-CHR*S*/SON-K1	ARGENTINA	2789	77	64	62	47	5
		GRAND MEAN	4602.8	77.7	66.7	73.5	42.4	7.3
		STANDARD ERROR OF GRAND MEAN	34.4	0.0			0.2	
		COEFFICIENT OF VARIATION AS PC	9.0	1.2			5.0	
		LSD VARIETY MEANS 5 PC	675.2	1.6			3.5	

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	POWD %
TEST WT	0.26					
FLOW DAYS	0.53	0.24				
PLNT HT	0.43	0.12	0.59			
1000 G.W.	-0.29	0.01	-0.46	-0.17		
POWD %	-0.27	0.08	-0.22	-0.16	0.14	

S.A.P.
S.BOROJEVIC
LATITUDE 045 00'N
LONGITUDE 019 00'E
ELEVATION 0084 M.ABOVE S.L.

DATE PLANTED 3/ 3/78
DATE HARVESTED 7/24/78
AMOUNT OF MOISTURE 490 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NOT REPORTED. NEGLIGIBLE INSECT AND BIRD DAMAGE.
LOCAL CHECK: NS-14-13

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.	POWD %
19	CHIROCA*S*	MEXICO	5433	82	156	194	0	84	34	37
4	PAVON 76	MEXICO ***	5033	82	156	194	1	83	35	29
7	PAVON*S*	MEXICO	4867	81	157	196	1	85	33	67
15	MAPACHE (TRITICALE)	MEXICO	4792	68	154	193	2	94	38	0
11	PAVON*S*	MEXICO	4792	82	156	194	0	85	35	60
10	MONCHO*S*	MEXICO	4642	81	156	194	0	83	40	59
28	NAOPEN	CHILE	4333	79	158	196	8	84	32	41
50	LOCAL CHECK		4325	73	158	196	9	80	28	41
3	NACOZARI*S*	MEXICO	4300	78	156	193	2	76	28	74
31	GLENLEA	CANADA	4283	81	160	196	1	100	45	29
26	NACOZARI*S*	MEXICO	4183	78	156	193	9	80	26	78
17	TESOPACO*S*	MEXICO	4158	80	155	192	1	86	35	78
18	NACOZARI76	MEXICO	4117	77	157	194	8	78	26	78
48	YECORATO *S*	INIA/MEX	4100	81	151	192	2	63	34	74
20	CHOLI*S*	CHILE/MEX	4100	77	154	193	9	76	27	63
1	HORK*S*	MEXICO	4075	80	155	192	1	76	27	74
12	CUCKOO*S*	MEXICO	4067	79	155	193	9	77	28	67
47	M.J.INTA	ARGENTINA	4067	81	154	193	3	79	36	37
27	CONDOR*S*	AUSTRALIA	4058	80	158	195	1	69	32	60
36	UP301 X SON64-PI62	INDIA/LEB	4025	81	150	190	2	75	34	41
32	DOUGGA	TUNISIA	4025	81	158	194	1	74	33	37
45	IAS54	BRAZIL	4017	81	155	194	3	87	5	63
30	ABU-GHRAIB3	IRAQ	3842	80	155	194	9	77	28	82
24	MEXICALI75 (DURUM)	MEXICO	3833	78	152	193	6	78	45	33
38	MN7083	U.S.A.	3800	80	155	194	0	78	38	63
2	BUTTE-ND519	U.S.A.	3742	83	156	194	0	97	34	41
9	MAGPIE*S*	MEXICO	3733	79	153	189	1	69	34	89
14	5331-NOR67	INDIA/LEB	3717	72	159	196	2	82	29	56
35	TANORI71	MEXICO	3675	80	148	190	3	83	32	48
46	BULBUL	PAKISTAN	3650	78	154	193	8	84	27	60
42	H-RA(2)F(2)	INIA/MEX	3650	73	156	195	7	76	34	78
22	JUPATECO73	MEXICO	3617	81	152	191	3	80	33	48
16	SOLTANE	TUNISIA	3600	81	154	191	1	75	33	67
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	3600	82	149	186	1	75	35	71
25	AWZA	U.S.A.	3592	78	148	194	9	72	28	56
37	KAL-BB	MEXICO	3533	74	156	194	0	70	25	41
23	COCORAQUE75	MEXICO	3500	81	149	189	1	68	33	74
44	EMU*S*	MEXICO	3500	81	156	194	1	75	38	48
13	SIETE CERROS	MEXICO	3500	75	158	196	9	77	25	44
39	SONALIKA	INDIA	3442	79	150	189	0	81	41	37
5	OLLANTA	PERU	3375	78	153	193	8	91	32	63
21	ANTIZANA	ECUADOR	3333	78	155	193	9	78	32	48
6	Y50E-KAL(3)	MEXICO	3258	76	159	196	9	78	27	33
43	PJ-GB X NAI66	PAKISTAN	3175	76	158	196	9	76	30	56
49	INIA66	MEXICO	3133	82	148	192	2	75	32	52
34	TORIM73	MEXICO	3050	79	150	191	7	63	29	48
40	E.DAKARU	URUGUAY	3050	81	158	196	9	92	31	44
29	FLICKER*S*	MEXICO	2958	72	155	193	8	68	28	78
33	GIZA155	EGYPT	2900	79	154	194	9	84	32	63
		GRAND MEAN	3868.9	78.8	154.6	193.2		79.3	32.4	55.3
		STANDARD ERROR OF GRAND MEAN	19.2	0.0				0.3	0.1	
		COEFFICIENT OF VARIATION AS PC	6.0	1.2				4.9	5.0	
		LSD VARIETY MEANS 5 PC	376.9	1.6				6.3	2.6	

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.	POWD %
TEST WT	0.15						
FLOW DAYS	0.27	-0.24					
MAT DAYS	0.17	-0.28	0.81				
PLNT HT	0.30	0.07	0.37	0.35			
1000 G.W.	0.24	0.33	-0.13	-0.17	0.39		
POWD %	-0.17	0.13	-0.12	-0.24	-0.41	-0.35	

A. HADJICHRISTODOULOU
LATITUDE 35 04'N
LONGITUDE 33 20'E
ELEVATION 150 M.ABOVE S.L.

DATE PLANTED 12/ 1/77
DATE HARVESTED 6/14/78
AMOUNT OF MOISTURE 266 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.
CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: PITIC 62

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT	1000 G.W.
3	NACOZARI"S"	MEXICO	2178	82	75	33
38	MN7083	U.S.A.	2171	83	85	35
39	SONALIKA	INDIA	2128	73	90	45
18	NACOZARI76	MEXICO	2063	82	80	34
22	JUPATECO73	MEXICO	1964	77	80	32
21	ANTIZANA	ECUADOR	1956	75	75	44
37	KAL-BB	MEXICO	1942	86	60	34
40	E.DAKARU	URUGUAY	1892	87	98	34
5	OLLANTA	PERU	1821	78	100	32
1	HORK"S"	MEXICO	1821	87	73	27
4	PAVON 76	MEXICO	1799	90	70	33
20	CHOLI"S"	CHILE/MEX	1785	84	83	30
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	1749	78	80	38
2	BUTTE-ND519	U.S.A.	1742	88	100	30
36	UP301 X SON64-PI62	INDIA/LEB	1721	80	70	34
23	COCORAQUE75	MEXICO	1714	75	65	35
19	CHIROCA"S"	MEXICO	1671	78	90	31
17	TESOPACO"S"	MEXICO	1628	82	90	32
26	NACOZARI"S"	MEXICO	1628	83	73	33
43	PJ-GB X NAI66	PAKISTAN	1592	81	88	34
6	Y50E-KAL(3)	MEXICO	1521	89	84	37
49	INIA66	MEXICO	1478	78	75	36
15	MAPACHE (TRITICALE)	MEXICO	1457	77	88	30
30	ABU-GHRAIB3	IRAQ	1442	81	73	28
50	LOCAL CHECK		1399	84	82	31
24	MEXICALI75 (DURUM)	MEXICO	1392	80	80	44
12	CUCKOO"S"	MEXICO	1392	82	78	29
35	TANORI71	MEXICO	1364	78	75	33
44	EMU"S"	MEXICO	1357	87	78	32
25	ANZA	U.S.A.	1321	91	62	30
42	H-RA(2)F(2)	INIA/MEX	1321	87	87	40
16	SOLTANE	TUNISIA	1299	88	74	35
48	YECORATO "S"	INIA/MEX	1271	88	63	32
47	M.J.INTA	ARGENTINA	1257	90	63	36
34	TORIM73	MEXICO	1200	79	67	34
32	DOUGGA	TUNISIA	1128	92	77	33
31	GLENLEA	CANADA	1071	93	90	37
29	FLICKER"S"	MEXICO	1042	90	65	30
11	PAVON"S"	MEXICO	1035	93	73	32
14	S331-NOR67	INDIA/LEB	1021	96	65	30
13	SIETE CERROS	MEXICO	1021	90	72	28
7	PAVON"S"	MEXICO	950	96	63	30
27	CONDOR"S"	AUSTRALIA	914	-	60	30
46	BULBUL	PAKISTAN	893	91	72	30
28	NAOPEN	CHILE	885	95	73	31
45	IAS54	BRAZIL	871	92	78	29
9	MAGPIE"S"	MEXICO	821	82	70	31
10	MONCHO"S"	MEXICO	721	95	67	34
33	GIZA155	EGYPT	685	94	80	33
		GRAND MEAN	1438.6	85.1	76.7	32.9

STANDARD ERROR OF GRAND MEAN
COEFFICIENT OF VARIATION AS PC
LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD KG/HA				
FLOW	DAYS	-0.65		
PLNT	HT	0.39	-0.30	
1000	G.W.	0.32	-0.38	0.20

AHWAZ(1ST DATE)
M.DAD-AYIN
LATITUDE 031 17'N
LONGITUDE 048 48'E
ELEVATION 0020 M.ABOVE S.L.

DATE PLANTED 11/10/77
DATE HARVESTED 4/20/78
AMOUNT OF MOISTURE 234 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: ARVANO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	SHTR %	1000 G.W.
50	LOCAL CHECK		5766	104	148	50S	111	0	0	52
26	NACOZARI"S"	MEXICO	5699	96	136	10S	101	0	0	46
14	S331-NOR67	INDIA/LEB	5588	102	147	0	112	0	13	49
3	NACOZARI"S"	MEXICO	5577	94	136	20S	99	0	0	42
27	CONDOR"S"	AUSTRALIA	5499	103	146	5R	91	0	3	42
20	CHOLI"S"	CHILE/MEX	5499	96	141	10S	102	0	0	41
43	PJ-GB X NAI66	PAKISTAN	5488	97	146	80S	103	3	20	45
28	NAOPEN	CHILE	5477	105	146	0	111	0	20	42
42	H-RA(2)F(2)	INIA/MEX	5388	99	146	50S	110	0	13	59
4	PAVON 76	MEXICO	5333	96	139	0	102	0	0	42
30	ABU-GHRAIB3	IRAQ	5322	91	139	20S	104	0	0	37
9	MAGPIE"S"	MEXICO	5322	90	136	0	99	0	0	42
12	CUCKOO"S"	MEXICO	5266	91	140	5MR	101	0	0	36
15	MAPACHE (TRITICALE)	MEXICO	5255	92	139	0	122	7	0	43
47	M.J.INTA	ARGENTINA	5222	100	141	0	114	0	40	46
16	SOLTANE	TUNISIA	5199	95	136	0	113	0	17	48
29	FLICKER"S"	MEXICO	5166	100	141	10MR	102	0	23	43
19	CHIROCA"S"	MEXICO	5077	95	141	0	113	0	0	44
7	PAVON"S"	MEXICO	5055	104	144	0	110	0	20	45
25	ANZA	U.S.A.	5044	102	142	20S	95	0	0	39
1	NORK"S"	MEXICO	5044	98	141	0	108	0	23	37
11	PAVON"S"	MEXICO	5022	96	140	0	105	0	20	37
22	JUPATECO73	MEXICO	5022	93	136	0	101	7	0	42
17	TESOPACO"S"	MEXICO	4911	95	139	0	110	0	0	47
46	BULBUL	PAKISTAN	4888	96	139	40S	113	7	20	46
18	NACOZARI76	MEXICO	4833	95	136	10S	101	0	0	44
32	DOUGGA	TUNISIA	4800	102	146	0	106	0	0	41
13	SIETE CERROS	MEXICO	4800	97	136	40S	101	0	40	40
24	MEXICALI75 (DURUM)	MEXICO	4766	89	136	10S	93	0	0	59
41	CMO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	4644	97	139	0	99	0	20	46
37	KAL-BB	MEXICO	4644	97	141	0	71	0	0	44
2	BUTTE-WD519	U.S.A. ***	4611	95	142	0	130	20	13	38
6	Y50E-KAL(3)	MEXICO	4555	101	141	50S	114	0	37	46
33	GIZA155	EGYPT	4533	97	146	5R	131	13	0	47
10	MONCHO"S"	MEXICO	4500	97	140	0	106	0	0	45
48	YECORATO "S"	INIA/MEX	4377	95	139	0	89	0	0	43
39	SONALIKA	INDIA	4366	86	136	0	108	17	7	56
5	OLLANTA	PERU	4188	88	136	10MS	124	43	20	41
38	MN7983	U.S.A.	4155	93	139	0	108	0	30	42
21	ANTIZANA	ECUADOR	4133	90	136	0	97	0	37	53
40	E.DAKARU	URUGUAY	4122	104	146	20S	130	13	20	39
44	EMU"S"	MEXICO	3922	102	142	0	105	7	0	42
31	GLENLEA	CANADA	3911	108	146	0	135	10	43	49
23	COCORAQUE75	MEXICO	3889	90	136	0	91	0	0	42
45	IAS54	BRAZIL	3844	102	141	0	115	7	0	41
49	INIA66	MEXICO	3800	89	136	0	104	20	0	46
36	UP301 X SON64-PI62	INDIA/LEB	3311	92	136	0	99	0	23	43
34	TORIM73	MEXICO	3266	94	136	10S	79	0	0	47
35	TANORI71	MEXICO	3155	91	136	0	99	0	10	43
		GRAND MEAN	4760.3	96.4	140.2	8.3	105.9	3.5	10.9	44.3
		STANDARD ERROR OF GRAND MEAN	46.6				0.1			0.1
		COEFFICIENT OF VARIATION AS PC	11.9				1.6			2.7
		LSD VARIETY MEANS 5 PC	916.5				2.7			1.9

CORRELATIONS

YIELD	KG/HA							
FLOW	DAYS	0.23						
MAT	DAYS	0.33	0.80					
LEAF	RUST	0.31	0.28	0.34				
PLNT	HT	0.04	0.28	0.39	0.06			
LODG	%	-0.38	-0.24	-0.07	-0.10	0.51		
SHTR	%	-0.14	0.25	0.10	0.13	0.34	0.05	
1000	G.W.	-0.01	-0.07	0.02	0.16	-0.00	-0.03	0.07

R.E.S.
H. NERSON

LATITUDE	32 05'N	DATE PLANTED	--/--/--	NITROGEN	APPLIED
LONGITUDE	35 00'E	DATE HARVESTED	--/--/--	PHOSPHORUS	APPLIED
ELEVATION	60 M.ABOVE S.L.	AMOUNT OF MOISTURE	671 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. DISEASE DEVELOPMENT NOT REPORTED.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK: LAKHISH

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	LODG %	1000 G.W.
11	PAVON"S"	MEXICO	3261	85	112	106	0	40
26	NACOZARI"S"	MEXICO	3190	84	108	110	0	42
29	FLICKER"S"	MEXICO	3125	83	111	98	13	40
6	Y50E-KAL(3)	MEXICO	3089	85	113	107	10	44
30	ABU-GHRAIB3	IRAQ	3044	83	100	99	0	33
3	NACOZARI"S"	MEXICO	3010	84	108	100	0	38
9	MAGPIE"S"	MEXICO	3008	85	98	90	0	45
12	CUCKOO"S"	MEXICO	2997	75	101	100	0	36
18	NACOZARI76	MEXICO	2950	79	108	99	0	42
22	JUPATECO73	MEXICO	2901	83	96	88	0	39
34	TORIM73	MEXICO	2895	77	96	66	0	46
43	PJ-GB X NAI66	PAKISTAN	2893	85	105	98	3	40
32	DOUGGA	TUNISIA	2856	83	118	102	0	34
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2840	86	102	99	0	43
1	HORK"S"	MEXICO	2839	79	109	103	3	36
20	CHOLI"S"	CHILE/MEX	2835	82	112	100	7	31
7	PAVON"S"	MEXICO	2816	84	119	98	7	35
28	NAOPEN	CHILE	2808	82	116	105	0	41
17	TESOPACO"S"	MEXICO	2797	83	106	113	27	43
27	CONDOR"S"	AUSTRALIA	2797	86	114	99	7	39
23	COCORAQUE75	MEXICO	2797	80	91	84	0	42
13	SIETE CERROS	MEXICO	2795	84	113	106	17	38
33	GIZA155	EGYPT	2740	86	109	115	70	44
47	M.J.INTA	ARGENTINA	2689	85	104	104	3	46
14	S331-NOR67	INDIA/LEB	2687	76	117	109	33	33
5	OLLANTA	PERU	2687	77	99	109	77	40
36	UP301 X SON64-PI62	INDIA/LEB	2663	84	102	93	13	41
46	BULBUL	PAKISTAN	2629	87	104	109	20	41
15	MAPACHE (TRITICALE)	MEXICO	2604	72	107	124	0	44
25	ANZA	U.S.A.	2586	86	113	93	0	39
44	EMU"S"	MEXICO	2554	77	108	109	27	45
16	SOLTANE	TUNISIA	2533	86	103	107	3	45
35	TANORI71	MEXICO	2495	86	95	89	0	45
49	INIA66	MEXICO	2440	78	93	92	0	44
19	CHIROCA"S"	MEXICO	2429	85	106	102	3	34
39	SONALIKA	INDIA	2422	84	91	88	0	51
4	PAVON 76	MEXICO ***	2392	85	111	96	0	37
48	YECORATO "S"	INIA/MEX	2356	84	104	85	0	41
42	H-RA(2)F(2)	INIA/MEX	2330	83	111	107	7	48
21	ANTIZANA	ECUADOR	2313	84	102	93	0	44
37	KAL-BB	MEXICO	2290	77	108	71	0	29
50	LOCAL CHECK		2284	81	109	103	17	49
31	GLENLEA	CANADA	2222	75	115	130	50	45
10	MONCHO"S"	MEXICO	2151	84	112	107	0	43
24	MEXICALI75 (DURUM)	MEXICO	2131	79	113	82	0	43
38	MN7083	U.S.A.	2092	84	105	109	7	41
40	E.DAKARU	URUGUAY	2074	84	117	122	50	37
45	IAS54	BRAZIL	1915	84	104	115	17	42
2	BUTTE-ND519	U.S.A.	1900	85	108	110	77	38
	GRAND MEAN		2635.7	82.4	106.7	100.9	11.6	40.7
	STANDARD ERROR OF GRAND MEAN		34.9	0.2		0.5		0.3
	COEFFICIENT OF VARIATION AS PC		16.0	2.4		5.6		8.6
	LSD VARIETY MEANS 5 PC		685.5	3.2		9.2		5.6

CORRELATIONS

YIELD KG/HA						
TEST WT	0.03					
FLOW DAYS	-0.04	0.03				
PLNT HT	-0.13	-0.02	0.45			
LODG %	-0.29	-0.09	0.18	0.53		
1000 G.W.	-0.16	0.06	-0.37	0.07	-0.08	

MIVHOR FARM
HAZERA SEEDS LTD.
LATITUDE 031 37'N
LONGITUDE 034 47'E
ELEVATION 0120 M.ABOVE S.L.

DATE PLANTED 11/ 6/77
DATE HARVESTED 6/22/78
AMOUNT OF MOISTURE 463 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
INSUFFICIENT RAIN MID OCTOBER. ALMOST NO RAIN IN NOVEMBER.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK: HAZERA 895

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	LODG %	1000 G.W.
15	MAPACHE (TRITICALE)	MEXICO	9053	71	89	113	5	50
18	NACOZARI76	MEXICO ***	7738	82	94	99	10	42
26	NACOZARI"S"	MEXICO	7671	82	93	99	7	41
25	ANZA	U.S.A.	7653	83	99	100	77	39
29	FLICKER"S"	MEXICO	7646	80	103	104	67	39
30	ADU-GHRAIB3	IRAQ	7579	82	87	102	3	33
12	CUCKOO"S"	MEXICO	7515	82	88	99	20	35
11	PAVON"S"	MEXICO	7473	83	96	106	22	43
3	NACOZARI"S"	MEXICO	7339	82	92	94	10	41
10	MONCHO"S"	MEXICO	7233	83	97	106	3	50
4	PAVON 76	MEXICO	7124	83	96	104	30	43
19	CHIROCA"S"	MEXICO	7089	83	93	105	40	38
32	DOUGGA	TUNISIA	7074	82	99	99	10	39
46	BULBUL	PAKISTAN	7071	82	95	109	3	41
24	MEXICALI75 (DURUM)	MEXICO	7067	80	85	95	37	65
28	NAOFEN	CHILE	7032	80	105	107	5	42
34	TORIM73	MEXICO	6951	83	88	86	0	42
27	CONDOR"S"	AUSTRALIA	6937	83	99	92	60	37
20	CHOLI"S"	CHILE/MEX	6852	81	97	102	57	38
35	TANORI71	MEXICO	6792	82	85	102	10	43
13	SIETE CERROS	MEXICO	6708	82	98	101	67	38
37	KAL-BB	MEXICO	6588	78	96	83	0	35
16	SOLTANE	TUNISIA	6577	82	96	101	47	46
23	COCORAQUE75	MEXICO	6549	82	85	92	3	42
43	PJ-GB X NAI66	PAKISTAN	6493	83	93	97	5	43
22	JUPATECO73	MEXICO	6394	82	91	102	30	39
1	HORK"S"	MEXICO	6355	81	97	106	52	36
49	INIA66	MEXICO	6337	84	85	106	25	47
39	SONALIKA	INDIA	6270	82	83	103	57	60
44	EMU"S"	MEXICO	6246	83	97	101	80	47
36	UP301 X SON64-PI62	INDIA/LEB	6218	81	86	95	2	45
42	H-RA(2)F(2)	INIA/MEX	6218	80	99	103	80	47
17	TESOPACO"S"	MEXICO	6218	81	93	113	90	45
14	S331-NOR67	INDIA/LEB	6151	77	104	110	13	39
50	LOCAL CHECK		5957	81	85	93	0	40
7	PAVON"S"	MEXICO	5847	81	101	112	70	38
47	M.J.INTA	ARGENTINA	5798	80	100	110	83	45
48	YECORATO "S"	INIA/MEX	5791	81	94	86	90	41
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	5632	82	93	94	12	44
31	GLENLEA	CANADA	5490	81	105	125	73	48
5	OLLANTA	PERU	5445	81	85	113	83	43
6	Y50E-KAL(3)	MEXICO	5435	83	99	107	83	43
2	BUTTE-ND519	U.S.A.	5417	82	95	118	77	41
33	GIZA155	EGYPT	5315	82	97	114	77	51
9	MAGPIE"S"	MEXICO	5227	82	88	95	33	48
21	ANTIZANA	ECUADOR	5082	82	85	98	7	51
38	MN7083	U.S.A.	5018	82	93	106	47	43
40	E.DAKARU	URUGUAY	4817	81	100	120	32	39
45	IAS54	BRAZIL	4465	80	96	115	93	39
		GRAND MEAN	6468.4	81.4	93.8	103.0	38.5	43.0
		STANDARD ERROR OF GRAND MEAN	53.8	0.0		0.3		0.2
		COEFFICIENT OF VARIATION AS PC	10.1	1.0		3.2		4.0
		LSD VARIETY MEANS 5 PC	1056.6	1.3		5.4		3.3

CORRELATIONS

YIELD KG/HA					
TEST WT	-0.19				
FLOW DAYS	-0.04	-0.11			
PLNT HT	-0.27	-0.19	0.38		
LODG %	-0.43	0.07	0.36	0.41	
1000 G.W.	-0.11	-0.08	-0.32	0.08	0.07

DEIR ALLA
Z.GHOSHEH

LATITUDE	032 12'N	DATE PLANTED	11/30/77	NITROGEN	APPLIED
LONGITUDE	035 36'E	DATE HARVESTED	6/13/78	PHOSPHORUS	APPLIED
ELEVATION	-224 M.ABOVE S.L.	AMOUNT OF MOISTURE	216 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
TOTAL RAINFALL WAS LESS THAN AVERAGE.
WEED AND BIRD PROBLEMS.
LOCAL CHECK: DEIR ALLA 4

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	SHTR %	SEPT NODO
41	CNO"S" X NAD67-CHR"S"/SON-K1	ARGENTINA	3200	80	79	140	20MR	80	10	4
27	CONDOR"S"	AUSTRALIA	2944	80	86	146	30MS	73	2	4
28	NAOFEN	CHILE	2611	75	85	147	40MS	83	0	11
11	PAVON"S"	MEXICO	2541	83	84	137	30MS	77	10	7
15	MAPACHE (TRITICALE)	MEXICO	2527	68	75	137	40MS	93	8	29
12	CUCKOO"S"	MEXICO	2402	82	78	138	35MS	82	3	15
29	FLICKER"S"	MEXICO	2389	74	83	146	30MS	84	3	7
10	MONCHO"S"	MEXICO	2305	82	85	137	30MS	82	3	11
39	SONALIKA	INDIA	2291	80	76	133	30MS	82	15	11
45	IAS54	BRAZIL	2277	79	84	140	20MR	87	10	11
22	JUPATECO73	MEXICO	2236	81	78	135	50MS	82	5	10
46	BULBUL	PAKISTAN	2208	82	77	140	5MR	89	15	4
1	HORK"S"	MEXICO	2194	88	81	137	20MR	83	3	11
37	KAL-BB	MEXICO	2194	81	87	143	80S	62	7	22
40	E.DAKARU	URUGUAY	2111	78	88	146	15MR	88	0	0
3	NACOZARI"S"	MEXICO	2027	79	78	141	30MS	78	0	22
32	DOUGGA	TUNISIA	2014	80	82	140	15MR	72	17	4
42	H-RA(2)F(2)	INIA/MEX	2000	79	84	143	40MS	77	8	0
24	MEXICALI75 (DURUM)	MEXICO	2000	79	83	135	80S	75	2	11
20	CHOLI"S"	CHILE/MEX	1986	77	83	141	60S	74	5	11
30	ABU-GHRAIB3	IRAQ	1986	81	73	138	50MS	73	10	11
33	GIZA155	EGYPT ***	1930	77	85	143	10MR	87	0	11
44	EMU"S"	MEXICO	1916	77	77	137	15MR	77	0	11
23	COCORAQUE75	MEXICO	1902	80	78	135	80S	72	13	11
19	CHIROCA"S"	MEXICO	1902	79	81	135	50MS	82	0	11
9	MAGPIE"S"	MEXICO	1889	80	79	137	25MR	77	22	11
48	YECORATO "S"	INIA/MEX	1819	78	84	143	30MS	73	8	11
26	NACOZARI"S"	MEXICO	1777	80	84	143	40MS	80	12	11
4	PAVON 76	MEXICO	1736	79	83	146	20MR	74	0	11
7	PAVON"S"	MEXICO	1722	80	81	152	10MR	80	0	4
18	NACOZARI76	MEXICO	1694	79	88	152	40MS	73	2	18
13	SIETE CERROS	MEXICO	1680	79	85	141	30MS	80	8	7
49	INIA66	MEXICO	1680	82	78	135	60S	75	7	18
43	PJ-GB X NAI66	PAKISTAN	1653	88	82	140	25MR	79	10	4
25	ANZA	U.S.A.	1625	86	86	153	40MS	74	0	4
31	GLENLEA	CANADA	1611	77	89	146	15MR	107	13	7
34	TORIM73	MEXICO	1597	78	84	143	40MS	67	8	26
36	UP301 X SON64-PI62	INDIA/LEB	1583	81	79	136	60MS	75	13	11
2	BUTTE-ND519	U.S.A.	1528	75	81	138	15MR	98	0	7
35	TANORI71	MEXICO	1500	81	76	137	20MR	82	10	15
38	MN7083	U.S.A.	1486	79	82	144	20MR	80	7	11
14	S331-NOR67	INDIA/LEB	1389	74	86	145	40MS	82	17	18
17	TESOPACO"S"	MEXICO	1389	77	85	141	50MS	91	23	18
21	ANTIZANA	ECUADOR	1291	80	81	136	80S	70	18	18
16	SOLTANE	TUNISIA	1194	79	85	141	40MS	78	22	11
50	LOCAL CHECK		1180	80	87	146	15S	80	0	7
6	Y50E-KAL(3)	MEXICO	1125	80	86	152	25MR	83	20	0
47	M.J.INTA	ARGENTINA	1069	-	84	143	30MS	78	10	4
5	OLLANTA	PERU	805	-	65	153	20MR	92	60	18
		GRAND MEAN	1880.1	79.0	81.8	141.5	30.3	80.0	9.0	11.0
		STANDARD ERROR OF GRAND MEAN	51.0					0.4		
		COEFFICIENT OF VARIATION AS PC	32.9					6.7		
		LSD VARIETY MEANS 5 PC	1002.8					8.7		

CORRELATIONS

YIELD	KG/HA							
TEST	WT	-0.01						
FLOW	DAYS	-0.00	-0.07					
MAT	DAYS	-0.30	-0.16	0.35				
LEAF	RUST	-0.08	0.08	-0.02	-0.26			
PLNT	HT	-0.06	-0.42	-0.09	0.08	-0.52		
SHTR	%	-0.43	0.07	-0.46	0.11	0.03	0.18	
SEPT	NODO	-0.06	-0.23	-0.30	-0.24	0.41	-0.12	0.14

TEL AMARA
LEBANESE R.I.
LATITUDE 033 55'N
LONGITUDE 035 28'E
ELEVATION 0950 M.ABOVE S.L.

DATE PLANTED 11/16/77
DATE HARVESTED 7/ 5/78
AMOUNT OF MOISTURE 850 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
RAINFALL 250 MM ABOVE AVERAGE FOR THE GROWING SEASON.
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: SANNINE

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
44	EMU*S*	MEXICO	4288	80	131	173	----	95	39
26	NACOZARI*S*	MEXICO	3044	79	131	172	10MS	100	38
18	NACOZARI76	MEXICO	3733	79	132	171	5MS	90	37
23	COCORAQUE75	MEXICO	3722	83	118	168	----	85	42
1	HORK*S*	MEXICO	3633	81	132	174	----	85	32
25	ANZA	U.S.A.	3577	80	132	174	TR-MR	95	36
50	LOCAL CHECK		3555	76	134	173	----	85	40
29	FLICKER*S*	MEXICO	3500	75	134	175	----	95	40
24	MEXICALI75 (DURUM)	MEXICO	3500	78	128	172	----	100	39
30	ABU-GHRAIB3	IRAQ	3455	81	131	173	5MR	90	33
35	TANORI71	MEXICO	3433	81	127	168	----	80	42
22	JUPATECO73	MEXICO	3355	82	129	172	----	85	40
2	BUTTE-ND519	U.S.A.	3333	79	132	174	----	105	32
47	M.J.INTA	ARGENTINA	3155	79	131	173	----	90	41
3	NACOZARI*S*	MEXICO	3122	79	134	175	5MS	95	35
4	PAVON 76	MEXICO ***	3100	80	134	175	----	100	36
12	CUCKOO*S*	MEXICO	3089	80	131	172	5MR	85	35
27	CONDOR*S*	AUSTRALIA	3022	81	133	175	----	90	37
42	H-RA(2)F(2)	INIA/MEX	2977	76	133	172	----	85	40
10	MONCHO*S*	MEXICO	2977	78	134	175	----	85	41
46	BULBUL	PAKISTAN	2933	79	134	175	5MS	95	39
37	KAL-BB	MEXICO	2911	77	137	175	----	65	35
13	SIETE CERROS	MEXICO	2889	77	138	176	10MS	75	34
15	MAPACHE (TRITICALE)	MEXICO	2877	66	128	172	----	100	35
48	YECORATO *S*	INIA/MEX	2855	78	131	172	----	75	38
32	DOUGGA	TUNISIA	2855	78	137	176	----	85	36
20	CHOLI*S*	CHILE/MEX	2778	79	132	172	5MS	80	33
28	NAOPEN	CHILE	2733	71	136	177	----	110	32
6	Y50E-KAL(3)	MEXICO	2732	78	137	176	5MR	90	39
9	MAGPIE*S*	MEXICO	2722	79	128	168	--	80	40
38	MN7883	U.S.A.	2711	79	132	172	----	85	39
21	ANTIZANA	ECUADOR	2700	78	129	172	5MS	95	47
39	SONALIKA	INDIA	2700	78	124	170	----	90	52
34	TORIM73	MEXICO	2655	81	129	168	----	65	38
16	SOLTA	TUNISIA	2644	80	129	169	----	90	40
11	PAVON*S*	MEXICO	2622	79	134	175	----	85	38
19	CHIROCA*S*	MEXICO	2489	79	133	172	----	85	36
7	PAVON*S*	MEXICO	2478	79	132	172	----	90	34
40	E.DAKARU	URUGUAY	2444	77	132	173	5MS	115	32
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	2411	79	129	170	----	85	38
14	S331-NOR67	INDIA/LEB	2300	71	140	178	----	75	33
5	OLLANTA	PERU	2289	78	131	172	5MR	115	37
36	UP301 X SON64-PI62	INDIA/LEB	2278	77	129	167	----	80	39
49	INIA66	MEXICO	2222	80	122	167	----	85	42
43	PJ-GB X NAI66	PAKISTAN	2222	74	137	176	5MS	70	30
17	TESOPACO*S*	MEXICO	2070	76	129	172	----	100	37
31	GLENLEA	CANADA	2022	77	135	176	----	105	40
33	GIZA155	EGYPT	1922	76	130	172	----	85	37
45	IAS54	BRAZIL	1811	78	133	174	----	110	38
		GRAND MEAN	2890.9	77.9	131.6	172.7	3.7	89.5	37.8

STANDARD ERROR OF GRAND MEAN 49.5
COEFFICIENT OF VARIATION AS PC 20.8
LSD VARIETY MEANS 5 PC 973.6

CORRELATIONS

YIELD	KG/HA						
TEST	WT	0.33					
FLOW	DAYS	-0.12	-0.36				
MAT	DAYS	-0.00	-0.36	0.85			
LEAF	RUST	0.09	-0.20	0.17	0.05		
PLNT	HT	-0.00	-0.13	-0.05	0.19	-0.23	
1000	G.W.	0.10	0.22	-0.54	-0.44	0.00	0.03

ALEPPO
CEREAL STAFF
LATITUDE 36 09'N
LONGITUDE 36 04'E
ELEVATION 300 M.ABOVE S.L.

DATE PLANTED 11/20/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE 400 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
AVERAGE RAINFALL BUT EARLY END TO RAINY SEASON.
NEGLIGIBLE DISEASE DEVELOPMENT. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: MEXIPAK

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	MAT DAYS	PLNT HT
14	S331-NOR67	INDIA/LEB	2580	160	80
13	SIETE CERROS	MEXICO	2561	154	85
48	YECORATO "S"	INIA/MEX	2561	151	65
1	HORK"S"	MEXICO	2530	150	85
26	NACOZARI"S"	MEXICO	2524	150	85
39	SONALIKA	INDIA	2475	156	80
12	CUCKOO"S"	MEXICO	2469	152	83
35	TANORI71	MEXICO	2469	150	84
4	PAVON 76	MEXICO	2462	150	75
30	ABU-GHRAIB3	IRAQ	2364	151	77
20	CHOLI"S"	CHILE/MEX	2364	152	76
9	MAGPIE"S"	MEXICO	2351	150	73
3	NACOZARI"S"	MEXICO	2351	148	70
18	NACOZARI76	MEXICO	2314	151	73
19	CHIROCA"S"	MEXICO	2296	150	82
11	PAVON"S"	MEXICO	2290	155	75
23	COCORAQUE75	MEXICO	2271	147	71
36	UP301 X SON64-PI62	INDIA/LEB	2271	149	81
22	JUPATECO73	MEXICO	2265	149	83
34	TORIM73	MEXICO	2246	149	68
47	M.J.INTA	ARGENTINA	2222	150	85
16	SOLTANE	TUNISIA	2222	151	83
24	MEXICALI75 (DURUM)	MEXICO	2197	151	78
43	PJ-GB X NAI66	PAKISTAN	2197	154	67
21	ANTIZANA	ECUADOR	2191	153	77
7	PAVON"S"	MEXICO	2166	152	72
17	TESOPACO"S"	MEXICO	2129	152	82
15	MAPACHE (TRITICALE)	MEXICO	2123	154	90
45	IAS54	BRAZIL	2123	156	86
10	MONCHO"S"	MEXICO	2092	154	82
28	NAOFEN	CHILE	2037	155	72
41	CNO"S" X NAD63-CHR"S"/SON-X1	ARGENTINA	2030	151	75
49	INIA66	MEXICO	2030	148	82
31	GLENLEA	CANADA	2024	161	96
44	EMU"S"	MEXICO	2024	157	80
25	ANZA	U.S.A.	2018	158	70
50	LOCAL CHECK		2012	150	70
42	H-RA(2)F(2)	INIA/MEX	1938	151	73
40	E.DAKARU	URUGUAY	1932	156	90
27	CONDOR"S"	AUSTRALIA	1932	158	75
29	FLICKER"S"	MEXICO	1889	152	68
37	KAL-BB	MEXICO	1870	153	55
2	BUTTE-ND519	U.S.A.	1852	151	95
6	Y50E-KAL(3)	MEXICO	1833	150	78
38	MN7883	U.S.A.	1802	160	70
46	BULBUL	PAKISTAN	1796	150	80
33	GIZA155	EGYPT	1759	156	85
32	DOUGGA	TUNISIA	1747	159	70
5	OLLANTA	PERU ***	1549	149	93
		GRAND MEAN	2158.2	152.6	78.2
		STANDARD ERROR OF GRAND MEAN	37.3		
		COEFFICIENT OF VARIATION AS PC	21.0		
		LSD VARIETY MEANS 5 PC	732.9		

CORRELATIONS

	YIELD KG/HA	MAT DAYS	PLNT HT
MAT DAYS	-0.22		
PLNT HT	-0.02	0.05	

IZRAA A.R.S.
L.R. MORSI ET AL
LATITUDE 033 31'N
LONGITUDE 036 37'E
ELEVATION 0575 M.ABOVE S.L.

DATE PLANTED 11/13/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE 336 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NOT REPORTED. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: HOURANI

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
18	NACOZARI76	MEXICO	3034	102	154	81	31
14	S331-NOR67	INDIA/LEB	2777	108	157	88	30
24	MEXICALI75 (DURUM)	MEXICO	2706	98	150	84	41
25	ANZA	U.S.A.	2678	108	157	71	31
34	TORIM73	MEXICO	2611	100	152	72	35
1	HORK*S*	MEXICO	2593	103	153	72	27
29	FLICKER*S*	MEXICO	2588	105	155	77	28
35	TAMORI71	MEXICO	2534	98	151	86	35
22	JUPATECO73	MEXICO	2482	98	150	83	34
30	ABU-GHRAIB3	IRAQ	2470	100	152	80	29
9	MAGPIE*S*	MEXICO	2465	98	152	77	30
12	CUCKOO*S*	MEXICO	2444	102	153	80	31
44	EMU*S*	MEXICO	2435	104	154	79	34
17	TESOPACO*S*	MEXICO	2434	103	155	91	32
15	MAPACHE (TRITICALE)	MEXICO	2424	98	150	98	34
7	PAVON*S*	MEXICO	2421	104	154	78	29
46	BULBUL	PAKISTAN	2409	105	155	86	33
3	NACOZARI*S*	MEXICO	2405	105	155	74	34
13	SIETE CERROS	MEXICO	2390	106	154	77	30
16	SOLTANE	TUNISIA	2378	100	152	85	36
2	BUTTE-ND519	U.S.A.	2353	109	157	97	30
23	COCORAQUE75	MEXICO	2342	93	145	76	39
11	PAVON*S*	MEXICO	2341	109	157	73	32
26	NACOZARI*S*	MEXICO	2298	103	153	72	31
10	MONCHO*S*	MEXICO	2286	106	155	78	33
20	CHOLI*S*	CHILE/MEX	2283	104	154	76	26
47	M.J.INTA	ARGENTINA ***	2229	100	153	85	35
28	NAOPEN	CHILE	2220	112	159	77	29
36	UP301 X SON64-PI62	INDIA/LEB	2165	99	152	84	34
4	PAVON 76	MEXICO	2150	109	157	73	30
21	ANTIZANA	ECUADOR	21[illegible]	97	149	74	41
50	LOCAL CHECK		2122	112	159	96	38
32	DOUGGA	TUNISIA	2101	109	157	76	32
42	H-RA[illegible]F(2)	INIA/MEX	2095	103	154	79	35
41	CNO*.. X NAD63-CHR*S*/SON-K1	ARGENTINA	2069	99	152	81	36
37	KAL-BB	MEXICO	2015	108	157	58	28
38	MN7083	U.S.A.	2008	106	158	83	29
33	GIZA155	EGYPT	1964	104	155	87	32
31	GLENLEA	CANADA	1961	111	157	108	32
19	CHIROCA*S*	MEXICO	1955	105	156	82	31
27	CONDOR*S*	AUSTRALIA	1922	109	157	69	31
48	YECORATO *S*	INIA/MEX	1889	104	154	69	34
43	PJ-GB X NAI66	PAKISTAN	1828	100	152	74	31
5	OLLANTA	PERU	1759	98	151	98	30
39	SONALIKA	INDIA	1738	96	149	82	43
40	E.DAKARU	URUGUAY	1680	106	155	91	28
6	Y50E-KAL(3)	MEXICO	1655	106	155	81	32
49	INIA66	MEXICO	1591	96	148	87	38
45	IAS54	BRAZIL	977	106	157	87	31
		GRAND MEAN	2220.4	103.4	153.8	80.9	32.0
		STANDARD ERROR OF GRAND MEAN	31.8			0.5	0.3
		COEFFICIENT OF VARIATION AS PC	17.4			7.4	10.2
		LSD VARIETY MEANS 5 PC	624.7			9.7	5.4

CORRELATIONS

YIELD KG/HA					
FLOW	DAYS	-0.08			
MAT	DA[illegible]	-0.38	0.95		
PLNT	HT	-0.17	-0.05	-0.04	
1000	G.W.	-0.03	-0.57	-0.58	0.14

ADAPAZARI
M.ARICAN

LATITUDE	040 44'N	DATE PLANTED	12/26/77	NITROGEN	APPLIED
LONGITUDE	030 25'E	DATE HARVESTED	7/10/78	PHOSPHORUS	APPLIED
ELEVATION	0033 M.ABOVE S.L.	AMOUNT OF MOISTURE	641 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NO RAIN IN MAY AND JUNE.
APHID PROBLEMS
LOCAL CHECK: SEKORYA75

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	STRP RT.L	LEAF RUST	PLNT HT	POWD %
24	MEXICALI75 (DURUM)	MEXICO	4529	20S	30S	97	44
50	LOCAL CHECK		4396	10MS	20S	88	71
19	CHIROCA"S"	MEXICO	4355	10MS	---	98	28
42	H-RA(2)F(2)	INIA/MEX	4329	----	60S	95	70
30	ABU-GHRAIB3	IRAQ	4074	----	50S	92	71
15	MAPACHE (TRITICALE)	MEXICO	4074	----	---	110	-
45	IAS54	BRAZIL	4022	----	20MS	107	60
9	MAGPIE"S"	MEXICO	3974	----	TMR	78	22
26	NACOZARI"S"	MEXICO	3955	----	60S	92	37
12	CUCKOO"S"	MEXICO	3944	----	40S	92	59
3	NACOZARI"S"	MEXICO	3907	----	5MS	87	48
17	TESOPACO"S"	MEXICO ***	3877	----	TR	102	59
1	HORK"S"	MEXICO	3722	30S	---	92	37
38	MN7083	U.S.A.	3711	80S	---	97	44
43	PJ-GB X MAI66	PAKISTAN	3707	----	90S	93	37
48	YECORATO "S"	INIA/MEX	3692	20S	5MR	73	56
2	BUTTE-ND519	U.S.A.	3674	10MS	---	123	40
18	NACOZARI76	MEXICO	3666	----	60S	88	37
46	BULBUL	PAKISTAN	3666	----	30S	102	56
44	EMU"S"	MEXICO	3644	5MR	---	92	41
28	CHOLI"S"	CHILE/MEX	3596	----	40S	87	52
29	FLICKER"S"	MEXICO	3592	----	70S	83	56
47	M. [illegible] TA	ARGENTINA	3585	30MS	20MS	97	52
7	[illegible] "S"	MEXICO	3574	TR	---	97	37
36	[illegible] X SON64-PI62	INDIA/LEB	3522	20S	---	87	67
13	[illegible] E CERROS	MEXICO	3489	----	30S	93	33
35	[illegible]NORI71	MEXICO	3470	----	5MS	83	67
11	PAVON"S"	MEXICO	3448	----	---	87	48
31	GLENLEA	CANADA	3448	10MS	---	122	39
37	KAL-BB	MEXICO	3444	70S	---	68	22
32	DOUGGA	TUNISIA	3429	----	---	85	22
16	SOLTANE	TUNISIA	3411	10MS	---	92	52
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3385	70S	10MS	85	63
27	CONDOR"S"	AUSTRALIA	3333	----	20MS	80	41
14	S331-NOR67	INDIA/LEB	3270	----	5MR	97	29
4	PAVON 76	MEXICO	3248	10MS	---	90	29
5	OLLANTA	PERU	3133	----	40S	113	29
21	ANTIZANA	ECUADOR	3133	----	30S	90	30
28	NAOPEN	CHILE	3129	----	---	95	37
39	SONALIKA	INDIA	3107	----	---	87	29
33	GIZA155	EGYPT	3103	----	90S	100	41
25	ANZA	U.S.A.	3092	----	70S	82	52
40	E.DAKARU	URUGUAY	3059	40S	50S	112	52
34	TORIM73	MEXICO	2977	----	5MR	65	41
49	INIA66	MEXICO	2915	----	20MS	80	44
22	JUPATECO73	MEXICO	2881	----	---	78	22
6	Y50E-KAL(3)	MEXICO	2877	----	80S	92	18
23	COCORAQUE75	MEXICO	2796	----	---	68	33
10	MONCHO"S"	MEXICO	2455	----	---	82	11
		GRAND MEAN	3526.9	24.4	29.4	91.3	43.7
		STANDARD ERROR OF GRAND MEAN	27.2			0.3	
		COEFFICIENT OF VARIATION AS PC	9.3			4.6	
		LSD VARIETY MEANS 5 PC	533.5			6.8	

CORRELATIONS

YIELD	KG/HA				
STRP	RT.L	-0.04			
LEAF	RUST	-0.17	0.55		
PLNT	HT	0.28	0.00	0.19	
POWD	%	0.49	0.05	-0.11	0.14

SEIYUN
BIN YAHYA

LATITUDE	16 00'N	DATE PLANTED	12/ 3/77	NITROGEN	APPLIED
LONGITUDE	49 00'E	DATE HARVESTED	3/22/78	PHOSPHORUS	APPLIED
ELEVATION	600 M.ABOVE S.L.	AMOUNT OF MOISTURE	720 MM	POTASSIUM	--

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. CHEMICAL CONTROL OF INSECTS. WEED PROBLEMS
LOCAL CHECK: KALYANSONA. RUST READINGS 0-9 SCALE.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.
30	ABU-GHRAIB3	IRAQ	6426	52	97	7	0	76	36
12	CUCKOO"S"	MEXICO	6342	51	99	7	0	83	33
22	JUPATECO73	MEXICO	6153	57	101	0	0	84	34
3	NACOZARI"S"	MEXICO	6106	55	96	9	5	75	36
44	EMU"S"	MEXICO	6091	62	98	7	7	82	36
11	PAVON"S"	MEXICO	5984	61	100	1	0	88	36
27	CONDOR"S"	AUSTRALIA	5862	58	104	9	7	74	35
46	BULBUL	PAKISTAN	5824	52	97	7	7	79	35
19	CHIROCA"S"	MEXICO	5802	55	104	5	1	80	36
43	PJ-GB X NAI66	PAKISTAN	5688	56	97	7	7	79	35
26	NACOZARI"S"	MEXICO	5673	55	97	8	8	75	38
48	YECORATO "S"	INIA/MEX	5655	55	97	0	0	63	39
25	ANZA	U.S.A.	5591	63	105	0	8	79	34
45	IAS54	BRAZIL	5577	63	104	0	7	90	33
10	MONCHO"S"	MEXICO	5544	61	106	9	7	83	37
18	NACOZARI76	MEXICO	5477	56	97	9	1	71	37
21	ANTIZANA	ECUADOR	5413	55	96	8	0	75	39
33	GIZA155	EGYPT	5411	59	104	7	7	102	36
23	COCORAQUE75	MEXICO	5406	56	97	-	-	74	32
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	5366	58	105	0	0	81	34
14	S331-NOR67	INDIA/LEB	5328	62	105	0	2	85	39
6	Y50E-KAL(3)	MEXICO	5317	56	100	9	1	81	39
4	PAVON 76	MEXICO	5291	60	97	3	0	86	35
13	SIETE CERROS	MEXICO	5228	54	99	9	1	75	35
1	HORK"S"	MEXICO	5166	56	96	9	2	81	29
17	TESOPACO"S"	MEXICO	5166	56	93	0	0	88	36
35	TAMORI71	MEXICO	5111	50	95	-	-	78	37
16	SOLTANE	TUNISIA	5039	56	97	0	0	88	41
15	MAPACHE (TRITICALE)	MEXICO	5015	52	98	5	0	91	34
29	FLICKER"S"	MEXICO	4984	71	106	7	7	86	32
49	INIA66	MEXICO ***	4900	50	94	-	-	74	40
47	M.J.INTA	ARGENTINA	4877	63	108	0	0	88	38
32	DOUGGA	TUNISIA	4704	57	101	0	0	73	36
7	PAVON"S"	MEXICO	4697	73	106	0	0	89	30
42	[illegible]A(2)F(2)	INIA/MEX	4628	66	103	7	7	83	36
40	E.DAKARU	URUGUAY	4586	65	108	7	7	101	32
39	SONALIKA	INDIA	4580	50	97	7	0	75	45
36	UP301 X SON64-PI62	INDIA/LEB	4562	49	93	-	-	73	35
20	CHOLI"S"	CHILE/MEX	4553	56	98	7	0	71	30
9	MAGPIE"S"	MEXICO	4546	55	96	0	0	75	33
28	NAOFEN	CHILE	4488	63	109	7	0	82	25
38	MN7883	U.S.A.	4215	56	97	0	0	77	39
50	LOCAL CHECK		4213	56	102	9	7	80	35
5	OLLANTA	PERU	4182	49	94	-	-	97	34
37	KAL-BB	MEXICO	4153	55	98	0	0	52	33
2	BUTTE-ND519	U.S.A.	4111	57	98	0	0	104	31
34	TORIM73	MEXICO	4017	51	93	-	-	51	36
31	GLENLEA	CANADA	3944	66	107	0	0	104	38
24	MEXICALI75 (DURUM)	MEXICO	2418	56	92	-	-	60	37
		GRAND MEAN	5090.0	57.3	99.5			80.6	35.3
		STANDARD ERROR OF GRAND MEAN	61.1					0.5	0.2
		COEFFICIENT OF VARIATION AS PC	14.6					7.2	7.0
		LSD VARIETY MEANS 5 PC	1200.7					9.4	4.5

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	-0.03			
MAT	DAYS	0.12	0.78		
PLNT	HT	0.10	0.41	0.47	
1000	G.W.	0.06	-0.31	-0.27	-0.14

AUSSEFERA

LATITUDE	13 00'N	DATE PLANTED	12/ 6/77	NITROGEN	APPLIED
LONGITUDE	42 30'E	DATE HARVESTED	--/--/--	PHOSPHORUS	APPLIED
ELEVATION	1350 M.ABOVE S.L.	AMOUNT OF MOISTURE	10 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. SOME INSECT PROBLEMS.
LOCAL CHECK: BOUNI

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.
16	SOLTANE	TUNISIA	2955	61	95	0	0	70	40
26	NACOZARI"S"	MEXICO	2722	49	102	0	5MR	80	36
3	NACOZARI"S"	MEXICO	2669	50	103	----	0	70	40
5	OLLANTA	PERU	2622	47	102	40S	10S	70	38
6	Y50E-KAL(3)	MEXICO	2589	54	102	0	0	65	31
45	IAS54	BRAZIL	2589	40	95	0	10S	70	41
14	S331-NOR67	INDIA/LEB	2566	63	99	20S	5S	65	40
33	GIZA155	EGYPT	2513	55	103	40S	0	60	36
15	MAPACHE (TRITICALE)	MEXICO	2511	51	97	10S	0	65	41
11	PAVON"S"	MEXICO	2500	59	95	80S	20S	75	42
12	CUCKOO"S"	MEXICO	2500	53	103	20S	10S	75	40
28	NAOPEN	CHILE	2466	64	99	0	0	65	34
4	PAVON 76	MEXICO	2422	60	98	0	0	40	40
38	MN7083	U.S.A.	2400	52	99	40S	20S	75	34
20	CHOLI"S"	CHILE/MEX	2400	54	101	0	0	45	40
23	COCORAQUE75	MEXICO	2389	60	94	100S	80S	65	32
29	FLICKER"S"	MEXICO	2389	65	94	100S	80S	65	34
30	ABU-GHRA'83	IRAQ	2378	69	102	0	0	75	-
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2378	54	97	60S	0	60	32
35	TANORI71	MEXICO	2378	48	102	0	0	70	38
34	TORIM73	MEXICO	2366	48	98	100S	80S	60	46
17	TESOPACO"S"	MEXICO	2355	54	102	60S	40S	85	-
32	DOUGGA	TUNISIA	2344	54	95	0	0	55	34
49	INIA66	MEXICO	2322	49	98	60S	40S	58	41
39	SONALIKA	INDIA	2311	48	103	20S	20S	60	34
7	PAVON"S"	MEXICO	2311	62	98	40S	5S	60	31
18	NACOZARI76	MEXICO	2278	53	95	100S	80S	68	36
47	M.J.INTA	ARGENTINA	2233	62	100	0	0	75	41
10	MONCHO"S"	MEXICO	2233	64	104	0	0	65	31
13	SIETE CERROS	MEXICO	2211	55	105	40S	10S	85	-
21	ANTIZANA	ECUADOR	2200	77	-	0	0	50	-
42	H-RA(2)F(2)	INIA/MEX	2200	64	95	80S	20S	55	-
43	PJ-GB X NAI66	PAKISTAN	2200	53	99	50MR	10S	70	40
36	UP301 X SON64-PI62	INDIA/LEB	2178	46	103	0	0	60	38
27	CONDOR"S"	AUSTRALIA	2166	58	100	0	0	80	36
46	BULBUL	PAKISTAN	2133	51	96	20S	0	45	42
40	E.DAKARU	URUGUAY	2111	62	97	20MR	20S	70	40
19	CHIROCA"S"	MEXICO	2100	54	97	40S	10S	55	38
44	EMU"S"	MEXICO	2044	56	94	0	0	55	40
31	GLENLEA	CANADA	2033	63	103	40MR	0	70	-
2	BUTTE-ND519	U.S.A.	2022	54	105	0	0	70	-
37	KAL-BB	MEXICO	2000	52	96	40S	20S	65	50
1	HORK"S"	MEXICO ***	1933	60	105	0	0	75	-
22	JUPATECO73	MEXICO	1933	75	-	40S	10S	70	-
9	MAGPIE"S"	MEXICO	1922	59	96	60S	40S	65	31
48	YECORATO "S"	INIA/MEX	1900	51	97	0	0	80	41
24	MEXICALI75 (DURUM)	MEXICO	1900	51	96	80S	40S	60	42
25	ANZA	U.S.A.	1866	59	103	40MR	0	75	40
50	LOCAL CHECK		1222	50	93	100S	60S	40	41
		GRAND MEAN	2273.5	56.2	99.0	30.2	15.1	65.4	38.1

STANDARD ERROR OF GRAND MEAN 38.9
COEFFICIENT OF VARIATION AS PC 20.7
LSD VARIETY MEANS 5 PC 764.4

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	-0.10					
MAT	DAYS	0.13	-0.02				
LEAF	RUST	-0.20	-0.06	-0.48			
STEM	RUST	-0.18	-0.10	-0.48	0.87		
PLNT	HT	0.21	-0.00	0.42	-0.13	-0.09	
1000	G.W.	-0.18	-0.27	-0.16	0.02	0.02	-0.06

ELLERSLIE
UNIV OF ALBERTA
LATITUDE 053 34'N
LONGITUDE 113 31'W
ELEVATION 0677 M.ABOVE S.L.

DATE PLANTED 5/ 4/78
DATE HARVESTED 8/15/78
AMOUNT OF MOISTURE 306 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
TEMPERATURES ABOVE NORMAL DURING JULY AND AUGUST.
NEGLIGIBLE DISEASE DEVELOPMENT. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: NEEPAWA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
7	PAVON"S"	MEXICO	5079	77	64	121	79	40
29	FLICKER"S"	MEXICO	4929	73	60	113	69	38
6	Y50E-KAL(3)	MEXICO	4743	76	61	117	83	37
46	BULBUL	PAKISTAN	4721	78	61	115	84	38
17	TESOPACO"S"	MEXICO	4677	76	59	114	80	40
15	MAPACHE (TRITICALE)	MEXICO	4661	63	57	123	80	39
19	CHIROCA"S"	MEXICO	4632	77	62	123	82	40
42	H-RA(2)F(2)	INIA/MEX	4600	74	60	116	77	46
20	CHOLI"S"	CHILE/MEX ***	4499	73	59	112	60	36
12	CUCKOO"S"	MEXICO	4496	77	57	117	73	35
21	ANTIZANA	ECUADOR	4454	76	58	120	75	43
22	JUPATECO73	MEXICO	4451	77	59	115	73	39
4	PAVON 76	MEXICO	4448	79	61	119	79	40
31	GLENLEA	CANADA	4372	76	62	122	100	44
1	NORK"S"	MEXICO	4351	78	60	116	74	36
25	ANZA	U.S.A.	4335	75	61	120	70	36
11	PAVON"S"	MEXICO	4319	77	61	120	78	42
43	PJ-GB X NAI66	PAKISTAN	4311	76	61	119	79	36
18	NACOZARI76	MEXICO	4298	75	60	116	76	36
24	MEXICALI75 (DURUM)	MEXICO	4248	74	59	117	75	45
26	NACOZARI"S"	MEXICO	4240	75	59	113	76	36
14	S331-NOR67	INDIA/LEB	4237	73	64	119	85	35
28	NAOPEN	CHILE	4224	75	63	121	81	35
3	NACOZARI"S"	MEXICO	4162	75	59	114	76	38
30	ABU-GHRAIB3	IRAQ	4154	77	59	119	72	34
10	MONCHO"S"	MEXICO	4147	75	61	121	79	42
9	MAGPIE"S"	MEXICO	4093	75	60	113	64	38
38	MN7083	U.S.A.	4083	76	59	116	76	37
13	SIETE CERROS	MEXICO	4069	75	61	119	79	36
5	OLLANTA	PERU	4050	74	55	104	90	37
27	CONDOR"S"	AUSTRALIA	4031	77	61	122	69	36
35	TANORI71	MEXICO	3953	75	54	112	66	37
23	COCORAQUE75	MEXICO	3937	75	59	112	65	36
39	SONALIKA	INDIA	3830	73	59	121	75	47
33	GIZA155	EGYPT	3770	73	57	122	83	39
44	EMU"S"	MEXICO	3766	77	60	114	70	40
37	KAL-BB	MEXICO	3701	75	60	113	52	36
16	SOLTANE	TUNISIA	3676	77	59	114	77	41
49	INIA66	MEXICO	3672	78	56	112	64	40
2	BUTTE-ND519	U.S.A.	3620	78	59	117	95	38
36	UP301 X SON64-PI62	INDIA/LEB	3601	75	54	109	68	41
40	E.DAKARU	URUGUAY	3565	73	60	121	95	35
48	YECORATO "S"	INIA/MEX	3547	74	60	115	54	38
45	IAS54	BRAZIL	3537	71	61	121	88	38
47	M.J.INTA	ARGENTINA	3530	76	60	118	79	42
34	TORIM73	MEXICO	3505	73	57	109	51	36
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3411	75	54	115	65	39
50	LOCAL CHECK		3310	74	60	113	96	33
32	DOUGGA	TUNISIA	3115	76	63	123	74	38
		GRAND MEAN	4105.5	75.1	59.6	116.6	76.1	38.3
		STANDARD ERROR OF GRAND MEAN	22.2				0.2	
		COEFFICIENT OF VARIATION AS PC	6.6				3.5	
		LSD VARIETY MEANS 5 PC	437.0				4.4	

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.04				
FLOW	DAYS	0.28	0.18			
MAT	DAYS	0.16	-0.08	0.57		
PLNT	HT	0.17	-0.10	0.29	0.39	
1000	G.W.	0.12	0.02	-0.05	0.19	0.07

WINNIPEG
UNIV OF MANITOBA
LATITUDE 049 58'N
LONGITUDE 097 07'W
ELEVATION 0235 M.ABOVE S.L.

DATE PLANTED 5/ 4/78
DATE HARVESTED 8/--/78
AMOUNT OF MOISTURE 134 MM

NITROGEN --
PHOSPHORUS --
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. RUST OBSERVATIONS TAKEN AFTER INOCULATION.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK: RL 4361

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %
7	PAVON"S"	MEXICO	4688	79	107	1R	TR	69	5
31	GLENLEA	CANADA	4677	77	108	TR	TR	83	7
28	NAOFEN	CHILE	4510	75	107	20MR	TR	67	3
4	PAVON 76	MEXICO	4347	79	102	TR	TR	68	5
11	PAVON"S"	MEXICO	4343	81	103	TR	TR	66	3
50	LOCAL CHECK		4343	78	106	TR	TR	80	3
46	BULBUL	PAKISTAN	4312	77	103	1R	60S	68	10
17	TESOPACO"S"	MEXICO	4273	76	101	5R	TR	67	8
21	ANTIZANA	ECUADOR	4230	79	103	10MR	5MR	56	5
10	MONCHO"S"	MEXICO	4004	79	106	TR	TR	60	5
42	H-RA(2)F(2)	INIA/MEX	3756	73	101	1R	TR	63	7
47	M.J.INTA	ARGENTINA	3752	79	104	1R	TR	73	5
9	MAGPIE"S"	MEXICO	3706	75	102	10MR	TR	53	10
38	MN7083	U.S.A.	3617	77	101	TR	TR	66	5
2	BUTTE-ND519	U.S.A.	3570	78	102	TR	TR	72	8
45	IAS54	BRAZIL	3559	77	107	50MS	30M	78	5
40	E.DAKARU	URUGUAY	3552	77	104	30M	TR	76	5
15	MAPACHE (TRITICALE)	MEXICO ***	3494	63	106	20MR	0	70	5
12	CUCKOO"S"	MEXICO	3435	78	102	5MR	10MR	59	5
30	ABU-GHRAIB3	IRAQ	3424	75	102	3R	10MR	61	5
27	CONDOR"S"	AUSTRALIA	3413	75	105	40M	TR	52	3
19	CHIROCA"S"	MEXICO	3366	77	108	TR	TR	61	7
16	SOLTANE	TUNISIA	3353	75	99	5MR	10M	62	8
3	NACOZARI"S"	MEXICO	3318	75	100	5MR	TR	61	5
14	S331-NOR67	INDIA/LEB	3257	73	103	3R	TR	63	5
36	UP301 X SON64-PI62	INDIA/LEB	3220	79	95	40M	TR	59	3
5	OLLANTA	PERU	3177	76	95	20MR	TR	70	13
44	EMU"S"	MEXICO	3098	79	104	1R	TR	58	8
29	FLICKER"S"	MEXICO	3062	78	101	10MR	TR	56	3
32	DOUGGA	TUNISIA	3053	78	107	1R	TR	58	5
25	ANZA	U.S.A.	3040	74	104	30M	20MR	60	7
35	TANORI71	MEXICO	3025	76	98	30M	TR	59	7
24	MEXICALI75 (DURUM)	MEXICO	2973	72	101	10M	60M	59	8
23	COCORAQUE75	MEXICO	2938	77	101	TR	TR	53	5
45	INIA66	MEXICO	2916	81	98	50M	1R	57	5
22	JUPATECO73	MEXICO	2877	77	101	3R	TR	58	5
18	NACOZARI76	MEXICO	2849	72	100	3R	TR	59	3
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2786	78	98	1R	TR	56	10
39	SONALIKA	INDIA	2727	75	101	40M	TR	64	7
13	SIETE CERROS	MEXICO	2703	71	102	30M	5M	66	3
20	CHOLI"S"	CHILE/MEX	2645	71	98	3R	20MR	53	5
48	YECORATO "S"	INIA/MEX	2595	77	99	TMS	5M	47	8
33	GIZA155	EGYPT	2588	75	102	30MR	TR-5M	72	7
26	NACOZARI"S"	MEXICO	2517	73	99	20M	10M	60	3
6	Y50E-KAL(3)	MEXICO	2498	71	103	10MR	TR-40M	62	3
43	PJ-GB X NAI66	PAKISTAN	2289	68	103	30M	10M	60	5
37	KAL-BB	MEXICO	2156	71	99	10MR	5MR	48	2
1	HORX"S"	MEXICO	2115	69	102	TR	30M	60	7
34	TORIM73	MEXICO	1906	75	96	1R	TR	48	3
		GRAND MEAN	3306.9	75.1	102.0	6.5	4.1	61.9	5.7
		STANDARD ERROR OF GRAND MEAN	47.3					0.2	0.2
		COEFFICIENT OF VARIATION AS PC	17.3					3.5	38.0
		LSD VARIETY MEANS 5 PC	929.6					4.4	3.6

CORRELATIONS

YIELD	KG/HA						
TEST	WT	0.48					
MAT	DAYS	0.55	0.05				
LEAF	RUST	-0.20	-0.05	-0.06			
STEM	RUST	0.00	-0.15	0.04	0.03		
PLNT	HT	0.59	0.14	0.48	0.03	0.04	
LODG	%	0.09	0.15	-0.14	-0.15	0.28	0.12

LATITUDE	043 00'N	DATE PLANTED	5/ 4/78	NITROGEN	--
LONGITUDE	080 25'W	DATE HARVESTED	8/21/78	PHOSPHORUS	--
ELEVATION	0333 M.ABOVE S.L.	AMOUNT OF MOISTURE	272 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: GLENLEA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT	POWD %
15	MAPACHE (TRITICALE)	MEXICO	3720	64	179	0	90	0
3	NACOZARI"S"	MEXICO	3650	76	179	0	64	50
18	NACOZARI76	MEXICO	3633	79	179	13	74	30
11	PAVON"S"	MEXICO	3581	80	180	13	67	80
21	ANTIZANA	ECUADOR	3425	79	178	0	71	13
28	NAOFEN	CHILE	3166	76	182	0	70	50
19	CHIROCA"S"	MEXICO	3149	81	181	0	76	13
47	M.J.INTA	ARGENTINA	3131	80	181	0	70	25
26	NACOZARI"S"	MEXICO	3079	79	178	13	64	13
31	GLENLEA	CANADA	3062	80	181	0	72	50
50	LOCAL CHECK		3045	77	182	0	82	30
4	PAVON 76	MEXICO	3028	80	180	13	73	50
42	H-RA(2)F(2)	INIA/MEX	3010	72	180	25	65	80
25	ANZA	U.S.A.	2976	79	183	38	61	63
48	YECORATO "S"	INIA/MEX	2941	75	179	13	54	63
5	OLLANTA	PERU	2941	75	175	50	75	38
6	Y50E-KAL(3)	MEXICO	2924	77	181	50	75	38
13	SIETE CERROS	MEXICO ***	2906	77	180	88	72	30
12	CUCKOO"S"	MEXICO	2906	73	177	63	71	100
27	CONDOR"S"	AUSTRALIA	2906	80	182	13	62	30
16	SOLTANE	TUNISIA	2889	77	180	25	73	25
38	MN7883	U.S.A.	2872	76	179	0	66	30
10	MONCHO"S"	MEXICO	2820	79	181	13	67	75
29	FLICKER"S"	MEXICO	2803	75	180	25	66	80
17	TESOPACO"S"	MEXICO	2803	75	177	13	71	100
46	BULBUL	PAKISTAN	2803	80	180	13	72	100
7	PAVON"S"	MEXICO	2803	79	183	0	73	63
33	GIZA155	EGYPT	2751	73	177	13	79	63
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2733	77	175	25	64	80
22	JUPATECO73	MEXICO	2733	77	179	88	72	80
2	BUTTE-ND519	U.S.A.	2716	75	177	13	82	63
40	E.DAKARU	URUGUAY	2716	79	179	0	78	25
1	HORK"S"	MEXICO	2699	75	180	50	70	100
39	SONALIKA	INDIA	2682	73	177	13	68	75
32	DOUGGA	TUNISIA	2647	79	181	0	63	13
24	MEXICALI75 (DURUM)	MEXICO	2612	76	177	13	68	25
36	UP301 X SON64-PI62	INDIA/LEB	2612	77	175	0	65	50
45	IAS54	BRAZIL	2612	77	181	0	66	100
37	KAL-BB	MEXICO	2560	71	179	13	54	75
43	PJ-GB X NAI66	PAKISTAN	2543	77	181	13	66	50
35	TANORI71	MEXICO	2526	76	175	25	70	80
14	S331-NOR67	INDIA/LEB	2509	72	181	25	71	25
44	EMU"S"	MEXICO	2491	72	180	0	69	13
9	MAGPIE"S"	MEXICO	2457	75	179	25	62	100
30	ABU-GHRAIB3	IRAQ	2353	72	170	30	67	75
34	TORIM73	MEXICO	2336	73	178	13	52	80
23	COCORAQUE75	MEXICO	2197	77	177	13	67	80
49	INIA66	MEXICO	2128	76	177	13	68	100
20	CHOLI"S"	CHILE/MEX	1920	72	170	25	66	80
		GRAND MEAN	2826.6	76.1	179.1	18.3	69.0	50.4
		STANDARD ERROR OF GRAND MEAN	33.1					
		COEFFICIENT OF VARIATION AS PC	14.2					
		LSD VARIETY MEANS 5 PC	651.2					

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.21				
FLOW	DAYS	0.26	0.32			
LEAF	RUST	-0.15	-0.13	-0.13		
PLNT	HT	0.34	-0.07	0.01	0.01	
POWD	%	-0.43	-0.11	-0.24	0.38	-0.34

ATIZAPAN
CIMMYT

LATITUDE	019 16'N	DATE PLANTED	5/11/78	NITROGEN	APPLIED
LONGITUDE	099 51'W	DATE HARVESTED	10/15/78	PHOSPHORUS	APPLIED
ELEVATION	2640 M.ABOVE S.L.	AMOUNT OF MOISTURE	1000 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WET AND WINDY CONDITIONS RESULTED IN LODGING
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	LEAF RUST	PLNT HT
9	MAGPIE"S"	MEXICO	5569	73	5MS	10MS	87
4	PAVON 76	MEXICO	5228	79	TR	0	97
10	MONCHO"S"	MEXICO	5048	79	0	0	102
19	CHIROCA"S"	MEXICO	4798	79	20MR	TR	98
26	NACOZARI"S"	MEXICO	4694	75	5MS	TMR-MS	90
3	NACOZARI"S"	MEXICO	4659	75	TR-MR	TMR	85
41	CNO"S" X WAD63-CHR"S"/SON-K1	ARGENTINA	4610	69	10MR	10MR-MS	88
15	MAPACHE (TRITICALE)	MEXICO	4583	74	20MR-MS	TR	110
30	ABU-GHRAIB3	IRAQ	4569	72	30MR-MS	0	88
36	UP301 X SON64-PI62	INDIA/LEB ***	4298	67	0	50S	92
23	COCORAQUE75	MEXICO	4194	72	10MR-MS	0	88
18	NACOZARI76	MEXICO	4173	74	0	TMS	87
12	CUCKOO"S"	MEXICO	4090	71	30MR-MS	TR	95
34	TORIM73	MEXICO	4041	70	TR	TR	77
38	MN7083	U.S.A.	4034	76	50MS	TR	97
21	ANTIZANA	ECUADOR	3895	74	10MR-MS	TR	97
39	SONALIKA	INDIA	3784	68	60MS	10MR-MS	98
11	PAVON"S"	MEXICO	3756	78	TMR	0	103
22	JUPATECO73	MEXICO	3729	75	40MS	5MR-MS	93
28	NAOPEN	CHILE	3708	85	TR	TMR	93
49	INIA66	MEXICO	3701	68	20MS	80S	100
27	CONDOR"S"	AUSTRALIA	3631	83	20MR-MS	10MR	85
48	YECORATO "S"	INIA/MEX	3506	72	10MR	TR	77
1	HORK"S"	MEXICO	3451	84	30MS	0	92
50	LOCAL CHECK		3402	83	TR	TR	102
45	IAS54	BRAZIL	3215	82	40MS	TR	103
24	MEXICALI75 (DURUM)	MEXICO	3152	76	10R-MR	TR	85
29	FLICKER"S"	MEXICO	3138	85	40MS	0	103
25	ANZA	U.S.A.	3131	87	40MS	TR	88
6	Y50E-KAL(3)	MEXICO	3125	82	0	30MS	102
17	TESOPACO"S"	MEXICO	3069	73	0	20MS-MR	107
7	PAVON"S"	MEXICO	3000	84	TR	TR	102
32	DOUGGA	TUNISIA	2986	84	20MS-MR	TR	88
44	EMU"S"	MEXICO	2930	80	0	0	100
16	SOLTANE	TUNISIA	2777	79	40MS-MR	TR	105
2	BUTTE-ND519	U.S.A.	2701	73	40MS	TR	112
37	KAL-BB	MEXICO	2666	78	20MS-MR	0	70
35	TANORI71	MEXICO	2576	67	30MS-S	90S	88
20	CHOLI"S"	CHILE/MEX	2486	78	5MR	30MS	92
42	H-RA(2)F(2)	INIA/MEX	2437	81	40MS	5MR-MS	100
5	OLLANTA	PERU	2305	68	TR	40MS	115
47	M.J.INTA	ARGENTINA	2284	82	40MS	0	107
33	GIZA155	EGYPT	2284	74	5MR	20MR-MS	115
31	GLENLEA	CANADA	1972	85	10R	TR	123
40	E.DAKARU	URUGUAY	1889	78	50MR-MS	TMS	112
46	BULBUL	PAKISTAN	1854	76	70S	TMR	103
14	S331-NOR67	INDIA/LEB	1472	86	50MR-MS	0	102
43	PJ-GB X NAI66	PAKISTAN	1166	80	80S	10MR-MS	92
13	SIETE CERROS	MEXICO	764	82	90S	--	93
		GRAND MEAN	3357.7	76.9	16.7	8.7	96.6
		STANDARD ERROR OF GRAND MEAN	43.5				0.4
		COEFFICIENT OF VARIATION AS PC	15.7				4.6
		LSD VARIETY MEANS 5 PC	855.5				7.2

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	-0.34			
STRP	RT.L	-0.47	0.06		
LEAF	RUST	-0.66	0.54	0.01	
PLNT	HT	-0.30	0.15	0.01	0.00

EL BATAN
CIMMYT

LATITUDE	019 31'N	DATE PLANTED	5/24/78	NITROGEN	APPLIED
LONGITUDE	098 53'W	DATE HARVESTED	10/ 7/78	PHOSPHORUS	APPLIED
ELEVATION	2249 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION % NOT REPORTED.
WEATHER NORMAL. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	LEAF RUST	PLNT HT
15	MAPACHE (TRITICALE)	MEXICO	8891	-	TR	5MR-R	-
11	PAVON*S*	MEXICO	8297	67	5-30MR-MS	TR-MR	104
4	PAVON 76	MEXICO ***	7832	64	T-20MR-R	T-10MS	93
26	NACOZARI*S*	MEXICO	7568	58	0	40MS	85
10	MONCHO*S*	MEXICO	7471	70	0	TMR-R	105
17	TESOPACO*S*	MEXICO	7464	64	0	0-20MR-MS	100
1	HORK*S*	MEXICO	7415	73	20R-MR	5MR-MS	100
12	CUCKOO*S*	MEXICO	7409	58	10R-MR	20-50S-MS	90
42	H-RA(2)F(2)	INIA/MEX	7360	71	0-40MR-MS	T-30MS	101
24	MEXICALI75 (DURUM)	MEXICO	7346	59	TMR	TMR	85
30	ABU-GHRAIB3	IRAQ	7318	60	20MR-MS	20-60S-MS	90
19	CHIROCA*S*	MEXICO	7270	63	5-30MR	TMR	100
18	NACOZARI76	MEXICO	7186	59	TR	30R	85
7	PAVON*S*	MEXICO	7117	78	10MR-MS	0	105
6	Y50E-KAL(3)	MEXICO	7009	69	TMR	20-50S-MS	95
9	MAGPIE*S*	MEXICO	6999	67	0-60MR-MS	5-20MS	85
48	YECORATO *S*	INIA/MEX	6985	58	10MR-MS	20MR-MS	74
3	NACOZARI*S*	MEXICO	6923	57	TR	60MS-MR	80
50	LOCAL CHECK		6756	70	TMR	5-40MS-S	88
23	COCORAQUE75	MEXICO	6679	66	TR/5R	5MR	85
45	IAS54	BRAZIL	6589	67	10S-MS	30-60S-MS	105
2	BUTTE-ND519	U.S.A.	6214	58	5-40MR-MS	TMR	110
46	BULBUL	PAKISTAN	6159	60	70MS-S	TR	100
44	EMU*S*	MEXICO	6027	65	TR	10-40MR	94
36	UP301 X SON64-PI62	INDIA/LEB	5888	53	20MR	80MS-S	81
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	5888	56	40MS-MR	50S	84
21	ANTIZANA	ECUADOR	5874	59	--	80S-MS	95
29	FLICKER*S*	MEXICO	5867	83	T-20MR-MS	5-30MS-S	105
35	TANORI71	MEXICO	5721	55	--	90S	87
28	NAOFEN	CHILE	5600	73	TR	5-10MR-R	97
34	TORIM73	MEXICO	5659	58	TMR	30MS-MR	70
20	CHOLI*S*	CHILE/MEX	5638	60	TR	30-70S-MS	87
43	PJ-GB X NAI66	PAKISTAN	5610	66	TR	0-60MR-MS	85
5	OLLA[illegible]	PERU	5596	54	5R-MR	70S-MS	100
31	GLENLEA	CANADA	5527	70	TR	20-40MS-S	130
38	MN7083	U.S.A.	5513	63	50MR-R	TR	90
16	SOLTANE	TUNISIA	5444	70	TR	10-50S-MS	105
33	GIZA155	EGYPT	5374	61	TR	10-30MR-R	115
22	JUPATECO73	MEXICO	5284	63	--	40-80S-MS	95
14	S331-NOR67	INDIA/LEB	5194	72	5-20R-MR	TMS	100
25	ANZA	U.S.A.	5089	70	TR	30-50S-MS	85
37	KAL-BB	MEXICO	5013	63	--	40MR-MS	61
39	SONALIKA	INDIA	4923	56	TMR	5-70S-MS	91
13	SIETE CERROS	MEXICO	4874	67	50MR	60MS	90
40	E.DAKARU	URUGUAY	4853	65	30R	0	120
49	INIA66	MEXICO	4603	56	--	60S	85
27	CONDOR*S*	AUSTRALIA	4360	71	0	0-40MR-MS	85
47	M.J.INTA	ARGENTINA	4124	76	20-40MR	0	105
32	DOUGGA	TUNISIA	4027	70	TR	TR	85
		GRAND MEAN	6202.2	64.4	6.3	22.7	93.6
		STANDARD ERROR OF GRAND MEAN	50.1				
		COEFFICIENT OF VARIATION AS PC	9.8				
		LSD VARIETY MEANS 5 PC	985.1				

CORRELATIONS

	YIELD KG/HA	FLOW DAYS	STRP RT.L	LEAF RUST
FLOW DAYS	-0.06			
STRP RT.L	-0.09	-0.01		
LEAF RUST	-0.36	-0.51	-0.10	
PLNT HT	0.02	0.40	0.12	-0.25

EL BAJIO
R. URBINA

LATITUDE	020 32'N	DATE PLANTED	12/4/77	NITROGEN	APPLIED
LONGITUDE	100 49'W	DATE HARVESTED	--/--/--	PHOSPHORUS	APPLIED
ELEVATION	1765 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

SOWING DATE AND GERMINATION % NOT REPORTED.
WEATHER NOT REPORTED. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	PLNT HT
24	MEXICALI75 (DURUM)	MEXICO	10700	90	137	TR	TR	105
15	MAPACHE (TRITICALE)	MEXICO	10609	94	151	TR	20MR	120
10	MONCHO"S"	MEXICO	9797	104	153	TR	10MR	100
18	NACOZARI76	MEXICO	9568	103	149	TR	40MR	100
26	NACOZARI"S"	MEXICO	9505	97	137	TR	20MS	95
19	CHIROCA"S"	MEXICO ***	8957	101	141	5R	20MR	115
21	ANTIZANA	ECUADOR	8853	92	147	TR	40MS	105
4	PAVON 76	MEXICO	8804	99	141	TR	10MR	100
3	NACOZARI"S"	MEXICO	8797	97	146	10R	20MR	95
50	LOCAL CHECK		8797	97	150	0	10MR	105
17	TESOPACO"S"	MEXICO	8769	98	149	TR	40MR	110
23	COCORAQUE75	MEXICO	8624	95	137	20MR	TR	90
9	MAGPIE"S"	MEXICO	8603	95	137	TR	30MR	100
22	JUPATECO73	MEXICO	8506	98	146	10S	60S	100
27	CONDOR"S"	AUSTRALIA	8311	104	151	20S	30S	95
7	PAVON"S"	MEXICO	0304	100	149	TR	----	110
11	PAVON"S"	MEXICO	8283	99	149	TR	10R	100
44	EMU"S"	MEXICO	8047	97	147	TR	20MR	105
46	YECORATO "S"	INIA/MEX	7978	97	151	TR	TR	85
42	H-RA(2)F(2)	INIA/MEX	7915	103	149	5S	30MS	110
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	7915	95	145	TR	10S	100
49	INIA66	MEXICO	7908	90	136	20S	40S	105
1	HORK"S"	MEXICO	7763	99	148	20MS	TR	105
25	ANZA	U.S.A.	7735	109	153	10S	80S	95
33	GIZA155	EGYPT	7686	98	152	TR	10MR	135
38	MN7083	U.S.A.	7631	97	142	20MR	TR	110
29	FLICKER"S"	MEXICO	7624	110	152	10MR	5R	110
39	SONALIKA	INDIA	7603	98	145	20S	40S	110
[illegible]	CUCKOO"S"	MEXICO	7575	95	137	60S	20S	110
34	TORIM73	MEXICO	7513	91	142	10R	10MR	75
30	ABU-GHRAIB3	IRAQ	7478	95	147	40S	20MR	110
16	SULTANE	TUNISIA	7395	94	149	20S	60S	105
9	Y50E-KAL(3)	MEXICO	7291	102	146	TR	10MR	112
35	TANORI71	MEXICO	7242	92	137	20S	10MR	100
43	PJ-GB X NAI66	PAKISTAN	7214	100	151	40S	40S	100
36	[illegible] X SON64-PI62	INDIA/LEB	7138	92	143	TR	40S	110
46	SULBUL	PAKISTAN	7041	96	147	30MS	10S	115
47	M.J.INTA	ARGENTINA	6902	99	148	10R	20MS	110
37	KAL-BB	MEXICO	6714	99	149	20S	40S	80
14	S33A-HOR67	INDIA/LEB	6582	110	149	10MR	5R	105
32	DOUGGA	TUNISIA	6555	111	153	10MR	10MR	95
28	NAOPEN	CHILE	6096	110	152	TR	20MR	105
40	E.DAKARU	URUGUAY	6006	101	152	20MS	TR	130
20	CHOLIJS"	CHILE/MEX	5978	104	142	10MS	40S	100
2	BUTTE-ND519	U.S.A.	5860	97	146	10MR	----	120
31	GLENLEA	CANADA	5687	102	150	0	10R	135
45	IAS54	BRAZIL	5666	94	147	10S	10MR	120
13	SIETE CERROS	MEXICO	5305	100	140	60S	40S	110
5	OLLANTA	PERU	4819	90	133	TR	40S	125
		GRAND MEAN	7707.1	98.6	145.9	9.4	17.3	106.0

STANDARD ERROR OF GRAND MEAN 59.3
COEFFICIENT OF VARIATION AS PC 9.3
LSD VARIETY MEANS 5 PC 1164.7

CORRELATIONS

YIELD	KG/HA					
FLOW	DAYS	-0.15				
MAT	DAYS	-0.01	0.60			
STRP	RT.L	-0.31	-0.12	-0.17		
LEAF	RUST	-0.17	-0.06	-0.05	0.32	
PLNT	HT	-0.28	-0.02	0.10	-0.01	-0.15

MONTERREY
APODACA C.A.E.

LATITUDE	025 05'N	DATE PLANTED	12/17/77	NITROGEN	--
LONGITUDE	100 36'W	DATE HARVESTED	4/30/78	PHOSPHORUS	--
ELEVATION	0537 M.ABOVE S.L.	AMOUNT OF MOISTURE	635 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
COLD AND DRY FOR THREE MONTHS AFTER SOWING.
SOME INSECT DAMAGE. LOCAL CHECK NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
12	CUCKOO"S"	MEXICO	3110	76	82	124	5R	61
30	ABU-GHRAIB3	IRAQ	2936	80	80	124	5R	60
4	PAVON 76	MEXICO	2873	83	89	123	10R	64
11	PAVON"S"	MEXICO	2800	80	88	126	5R	66
50	LOCAL CHECK		2743	78	88	124	5R	80
3	NACOZARI"S"	MEXICO	2740	79	85	122	10MS	64
36	UP301 X SON64-PI62	INDIA/LEB	2636	80	84	120	10MS	57
45	IAS54	BRAZIL	2596	76	88	126	20MS	78
48	YECORATO "S"	INIA/MEX	2590	73	84	124	5R	51
10	MONCHO"S"	MEXICO	2533	84	89	125	5R	66
7	PAVON"S"	MEXICO	2533	79	93	126	5R	68
26	NACOZARI"S"	MEXICO	2526	80	85	123	20MR	62
24	MEXICALI75 (DURUM)	MEXICO	2506	76	81	123	5R	62
18	NACOZARI76	MEXICO	2486	82	86	123	5R	61
22	JUPATECO73	MEXICO	2480	81	79	122	10MR	62
35	TANORI71	MEXICO	2460	77	77	123	20MS	59
25	ANZA	U.S.A.	2446	79	89	124	50S	58
42	H-RA(2)F(2)	INIA/MEX	2430	78	88	124	10R	62
19	CHIROCA"S"	MEXICO	2416	80	84	124	5R	63
2	BUTTE-ND519	U.S.A.	2390	83	86	125	5R	75
13	SIETE CERROS	MEXICO	2376	78	88	125	40S	63
1	HORK"S"	MEXICO	2353	84	86	123	----	59
28	NAOFEN	CHILE	2343	70	92	126	5R	72
23	COCORAQUE75	MEXICO	2336	82	79	122	5R	54
38	MN7083	U.S.A.	2333	78	83	123	5R	60
17	TESOPACO"S"	MEXICO	2330	82	87	123	10MS	66
15	MAPACHE (TRITICALE)	MEXICO	2300	64	80	124	----	77
47	M.J.INTA	ARGENTINA	2290	82	84	123	20R	67
5	OLLANTA	PERU	2263	77	79	121	40MS	72
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2253	77	84	124	20MS	56
14	S331-NOR67	INDIA/LEB	2233	70	93	126	5R	69
46	BULBUL	PAKISTAN	2223	79	85	124	10R	64
29	FLICKER"S"	MEXICO	2210	77	89	124	10MS	60
27	COND[illegible]"S"	AUSTRALIA	2196	80	85	125	20MS	58
6	Y50E-KAL(3)	MEXICO	2173	78	90	125	20MS	66
21	ANTIZANA	ECUADOR	2160	79	81	123	5R	56
34	TORIM73	MEXICO	2143	80	83	122	10R	43
32	DOUGGA	TUNISIA	2103	79	89	124	5R	60
20	CHOLI"S"	CHILE/MEX	2103	78	79	124	5R	55
16	SOLTANE	TUNISIA	2046	80	83	122	20MS	64
37	KAL-BB	MEXICO	2046	70	85	124	5R	47
43	PJ-GB X NAI66	PAKISTAN	2020	74	84	124	10MR	54
40	E.DAKARU	URUGUAY	2010	78	90	126	10MS	80
9	MAGPIE"S"	MEXICO	1996	79	79	122	5R	59
39	SONALIKA	INDIA	1940	74	75	123	30MS	62
49	INIA66	MEXICO	1923	82	79	123	40S	61
44	EMU"S"	MEXICO	1900	78	85	124	5R	60
33	GIZA155	EGYPT	1756	73	87	126	20MS	82
31	GLENLEA	CANADA	1660	71	93	125	5R	81
	GRAND MEAN		2331.7	77.9	84.9	123.8	8.7	63.3
	STANDARD ERROR OF GRAND MEAN							0.3
	COEFFICIENT OF VARIATION AS PC							5.1
	LSD VARIETY MEANS 5 PC							5.3

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST
TEST WT	0.27				
FLOW DAYS	0.0[illegible]	-0.07			
MAT DAYS	-0.07	-0.33	0.64		
LEAF RUST	-0.24	0.02	-0.19	-0.10	
PLNT HT	-0.05	-0.22	0.40	0.46	0.07

NAVIDAD
P. ELIZONDO ET AL

LATITUDE	25 04'N	DATE PLANTED	1/10/78	NITROGEN	APPLIED
LONGITUDE	100 36'W	DATE HARVESTED	7/18/78	PHOSPHORUS	APPLIED
ELEVATION	1895 M.ABOVE S.L.	AMOUNT OF MOISTURE	866 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
EARLY FROST DAMAGE.
NO INSECT, WEED OR BIRD PROBLEMS. NEGLIGIBLE DISEASE DEVELOPMENT.
LOCAL CHECK: ANAHUAC.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	MAT DAYS	PLNT HT
26	NACOZARI"S"	MEXICO	4255	150	75
11	PAVON"S"	MEXICO	4161	151	65
4	PAVON 76	MEXICO	3910	152	75
31	GLENLEA	CANADA	3900	155	70
50	LOCAL CHECK		3855	148	75
30	ABU-GHRAIB3	IRAQ	3844	150	70
3	NACOZARI"S"	MEXICO	3839	150	80
42	H-RA(2)F(2)	INIA/MEX	3800	155	80
36	UP301 X SON64-PI62	INDIA/LEB	3694	149	85
45	IAS54	BRAZIL	3677	152	75
46	YECORATO "S"	INIA/MEX	3650	153	70
12	CUCKOO"S"	MEXICO	3644	150	70
13	SIETE CERROS	MEXICO	3639	150	75
20	CHOLI"S"	CHILE/MEX	3450	153	80
17	TESOPACO"S"	MEXICO	3433	151	70
43	PJ-GB X NAI66	PAKISTAN	3389	151	70
28	NAOPEN	CHILE	3327	154	65
46	BULBUL	PAKISTAN	3327	154	65
22	JUPATECO73	MEXICO	3322	149	80
38	MN7883	U.S.A.	3255	153	70
21	ANTIZANA	ECUADOR	3250	150	65
14	S331-NOR67	INDIA/LEB	3227	153	70
15	MAPACHE (TRITICALE)	MEXICO	3222	155	70
18	NACOZARI76	MEXICO	3220	150	75
29	FLICKER"S"	MEXICO	3177	151	65
35	TANORI71	MEXICO	3144	150	80
10	MONCHO"S"	MEXICO	3111	153	60
40	E.DAYARU	URUGUAY	3111	155	70
6	Y50E-KAL(3)	MEXICO	3100	150	70
27	CONDOR"S"	AUSTRALIA	3089	152	80
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3055	152	75
24	MEXICALI75 (DURUM)	MEXICO	3027	150	75
7	PAVON"S"	MEXICO	3022	150	70
9	MAGPIE"S"	MEXICO	3011	150	80
32	DOUGCA	TUNISIA	2972	155	75
47	M.J.INTA	ARGENTINA	2939	148	70
44	EMU"S"	MEXICO ***	2883	152	75
25	ANZA	U.S.A.	2822	153	65
19	CHIROCA"S"	MEXICO	2761	150	80
37	KAL-BB	MEXICO	2705	151	70
5	OLLANTA	PERU	2705	149	65
2	BUTTE-ND519	U.S.A.	2600	155	70
34	TORIM73	MEXICO	2600	151	00
16	SOLTANE	TUNISIA	2394	150	65
39	SONALIKA	INDIA	2344	152	75
33	GIZA155	EGYPT	2270	152	75
1	HORK"S"	MEXICO	2183	150	75
23	COCORAQUE75	MEXICO	2005	148	60
49	INIA66	MEXICO	1387	148	75

GRAND MEAN	3157.3	151.3	72.3
STANDARD ERROR OF GRAND MEAN	55.2		
COEFFICIENT OF VARIATION AS PC	21.2		
LSD VARIETY MEANS 5 PC	1085.9		

CORRELATIONS

	YIELD KG/HA	
MAT DAYS	0.17	
PLNT HT	0.12	-0.13

CIANO (1ST DATE)
CIMMYT

LATITUDE	027 20'N	DATE PLANTED	11/10/78	NITROGEN	APPLIED
LONGITUDE	109 54'W	DATE HARVESTED	--/--/--	PHOSPHORUS	APPLIED
ELEVATION	0038 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
CONDITIONS WARMER THAN AVERAGE EARLY IN SEASON, COOLER LATER
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	LEAF RUST	PLNT HT
50	LOCAL CHECK		8065	75	20MR	91
4	PAVON 76	MEXICO	7849	75	20MS-MR	90
11	PAVON"S"	MEXICO	7752	76	TMS	91
29	FLICKER"S"	MEXICO	7257	87	5MR	89
46	BULBUL	PAKISTAN	7204	72	50S-MS	94
17	TESOPACO"S"	MEXICO	7143	71	20S-MS	96
22	JUPATECO73	MEXICO	7113	74	40S	94
9	MAGPIE"S"	MEXICO ***	7004	71	50S	82
7	PAVON"S"	MEXICO	6946	82	50S	93
20	CHOLI"S"	CHILE/MEX	6871	72	60S	83
30	ABU-GHRAIB3	IRAQ	6871	69	30S	85
12	CUCKOO"S"	MEXICO	6791	71	30S-MS	88
10	MONCHO"S"	MEXICO	6754	79	TR	95
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	6732	69	20MR-R	86
1	HORK"S"	MEXICO	6724	70	TMS	84
6	Y50E-KAL(3)	MEXICO	6613	73	50S	87
37	KAL-BB	MEXICO	6571	71	40MS-S	64
26	NACOZARI"S"	MEXICO	6507	70	60S	70
18	NACOZARI76	MEXICO	6455	70	50S-MS	80
42	H-RA(2)F(2)	INIA/MEX	6302	81	30MR-R	93
45	IAS54	BRAZIL	6330	72	60S	92
16	SOLTANE	TUNISIA	6293	74	40S	90
19	CHIROCA"S"	MEXICO	6202	70	TMR	91
25	ANZA	U.S.A.	6238	80	40S	82
43	PJ-GB X NA166	PAKISTAN	6235	72	20MR	80
32	DOUGGA	TUNISIA	6210	77	10MR-MS	79
13	SIETE CERROS	MEXICO	6163	74	60S	81
23	COCORAQUE75	MEXICO	6132	72	TMR	82
44	EMU"S"	MEXICO	6091	75	70S	86
27	CONDOR"S"	AUSTRALIA	6021	[illegible]	20X	79
48	YECORATO "S"	INIA/M[illegible]	6002	71	TMR	68
47	M.J.INTA	ARGENTINA	5946	81	40S	96
14	S331-NOR67	INDIA/LEB	5927	81	10MS	100
21	ANTIZANA	ECUADOR	5857	65	10MS-MR	83
28	NAOFEN	CHILE	5741	84	20MR-R	89
3	NACOZARI"S"	MEXICO	5741	69	60S	76
49	INIA66	MEXICO	5602	65	70S	85
38	MN7083	U.S.A.	5596	69	50S	85
15	MAPACHE (TRITICALE)	MEXICO	5555	72	10MS-MR	99
36	UP301 X SON64-PI62	INDIA/LEB	5413	63	30S-MS	80
35	TANORI71	MEXICO	5405	65	90S	86
34	TORIM73	MEXICO	5399	67	50S	62
5	OLLANTA	PERU	5328	63	10-50MS-S	97
33	GIZA155	EGYPT	5080	71	10S-MS	105
40	E.DAKARU	URUGUAY	4902	80	20MR-MS	107
31	GLENLEA	CANADA	4546	79	TMR	111
2	BUTTE-ND519	U.S.A.	4453	71	0	94
39	SONALIKA	INDIA	4133	59	70S	85
24	MEXICALI75 (DURUM)	MEXICO	3683	64	30MS-MR	72
		GRAND MEAN	6161.4	72.9	29.0	87.2
		STANDARD ERROR OF GRAND MEAN	42.4			0.3
		COEFFICIENT OF VARIATION AS PC	8.3			3.9
		LSD VARIETY MEANS 5 PC	833.2			5.5

CORRELATIONS

YIELD KG/HA			
FLOW DAYS	0.38		
LEAF RUST	-0.11	-0.44	
PLNT HT	-0.01	0.38	-0.28

MESA EXP FARM
R.K.THOMPSON
LATITUDE 033 24'N
LONGITUDE 111 48'W
ELEVATION M.ABOVE S.L.

DATE PLANTED 11/23/77
DATE HARVESTED 6/ 1/78
AMOUNT OF MOISTURE 641 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
MUCH MORE RAIN THAN NORMAL DURING PERIOD DEC-MARCH
SLIGHT DISEASE INCIDENCE. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: AZ 103-1

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	LODG %
18	NACOZARI76	MEXICO	7599	82	115	99	27
4	PAVON 76	MEXICO	7516	83	113	100	0
43	PJ-GB X NAI66	PAKISTAN	7353	82	118	99	45
26	NACOZARI"S"	MEXICO	7306	82	113	98	7
10	MONCHO"S"	MEXICO	7243	83	117	106	1
35	TANORI71	MEXICO	7163	83	106	104	1
25	ANZA	U.S.A.	7149	83	118	95	27
32	DOUGGA	TUNISIA	7045	82	119	98	0
16	SOLTANE	TUNISIA	7034	82	109	105	17
12	CUCKOO"S"	MEXICO	6980	82	107	110	8
11	PAVON"S"	MEXICO	6954	82	115	102	1
30	ABU-GHRAIB3	IRAQ	6953	82	110	101	27
13	SIETE CERROS	MEXICO	6946	81	118	104	27
50	LOCAL CHECK		6890	80	127	128	28
39	SONALIKA	INDIA	6865	82	105	109	32
34	TORIM73	MEXICO	6779	83	109	81	0
24	MEXICALI75 (DURUM)	MEXICO	6769	83	102	102	72
41	CNO"S" X NAD63-CHR"S"/SOH-K1	ARGENTINA	6755	83	115	104	15
22	JUPATECO73	MEXICO	6753	83	108	105	30
3	NACOZARI"S"	MEXICO ***	6699	81	114	99	1
19	CHIROCA"S"	MEXICO	6625	82	113	114	18
29	FLICKER"S"	MEXICO	6576	79	116	113	28
27	CONDOR"S"	AUSTRALIA	6548	83	117	94	10
38	MN7083	U.S.A.	6501	80	113	110	38
6	Y50E-KAL(3)	MEXICO	6419	82	118	111	32
1	HORK"S"	MEXICO	6378	82	116	109	28
42	H-RA(2)F(2)	INIA/MEX	6262	79	117	106	20
49	INIA[illegible]	MEXICO	6256	85	106	108	2
23	CO[illegible]QUE75	MEXICO	6248	83	107	94	0
46	[illegible]UL-BUL	PAKISTAN	6236	83	115	116	30
9	MAGPIE"S"	MEXICO	6227	79	108	98	57
28	NAOFEN	CHILE	6205	77	117	107	0
15	MAPACHE (TRITICALE)	MEXICO	6177	68	106	122	35
36	UP301 X SON64-PI62	INDIA/LEB	5960	81	108	101	53
21	ANTIZANA	ECUADOR	5872	80	109	100	20
7	PAVON"S"	MEXICO	5853	81	117	108	43
37	KAL-BB	MEXICO	5832	77	116	77	0
47	M.J.INTA	ARGENTINA	5668	82	114	109	19
17	TESOPACO"S"	MEXICO	5651	79	110	116	90
48	YECORATO "S"	INIA/MEX	5647	79	114	84	12
20	CHOLI"S"	CHILE/MEX	5527	77	116	101	53
14	S331-NOR67	INDIA/LEB	5413	79	121	118	18
45	IAS54	BRAZIL	5150	79	109	112	60
44	EMU"S"	MEXICO	5125	81	114	107	60
5	OLLANTA	PERU	4511	80	107	110	83
40	E.DAKARU	URUGUAY	4502	80	118	120	33
33	GIZA155	EGYPT	4209	81	115	123	15
2	BUTTE-ND519	U.S.A.	4202	81	115	123	65
31	GLENLEA	CANADA	2859	77	120	135	90
		GRAND MEAN	6232.7	80.7	113.3	106.4	28.4
		STANDARD ERROR OF GRAND MEAN	36.6	0.1		0.4	
		COEFFICIENT OF VARIATION AS PC	7.1	0.8		4.2	
		LSD VARIETY MEANS 5 PC	18.5	1.0		7.3	

CORRELATIONS

YIELD	KG/HA				
TEST	WT	0.38			
FLOW	DAYS	-0.11	-0.07		
PLNT	HT	-0.52	-0.26	0.20	
LODG	%	-0.55	-0.27	-0.11	0.46

DAVIS (UNIV. CALIF.)
C.O.QUALSET ET AL

LATITUDE	038 32'N	DATE PLANTED	12/ 9/77	NITROGEN	APPLIED
LONGITUDE	121 46'W	DATE HARVESTED	6/23/78	PHOSPHORUS	--
ELEVATION	0018 M.ABOVE S.L.	AMOUNT OF MOISTURE	760 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
ABNORMALLY WET IN JANUARY AND MARCH.
LOCAL CHECK: ROMANA 50

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	PLNT HT	LOD %	SHTR %	1000 G.W.	SEPT TRIT
24	MEXICALI75 (DURUM)	MEXICO	7121	76	116	168	7	90	5[illegible]	0	54	4
15	MAPACHE (TRITICALE)	MEXICO	6910	66	115	167	7	119	[illegible]	0	44	0
12	CUCKOO"S"	MEXICO	6847	75	113	168	6	94	2[illegible]	2	45	4
25	ANZA	U.S.A.	6799	78	129	174	7	87	[illegible]	0	34	11
29	FLICKER"S"	MEXICO	6795	75	122	168	17	94	1[illegible]	2	40	26
18	NACOZARI76	MEXICO	6722	76	122	172	10	90	7	3	39	7
30	ABU-GHRAIB3	IRAQ	6522	77	116	171	10	89	[illegible]	0	34	4
3	NACOZARI"S"	MEXICO	6251	76	121	172	7	90	3	8	34	22
27	CONDOR"S"	AUSTRALIA ***	6045	76	129	174	3	86	20	0	32	22
22	JUPATECO73	MEXICO	6029	78	111	165	28	9[illegible]	20	8	45	7
26	NACOZARI"S"	MEXICO	6007	77	122	170	5	88	47	10	34	11
35	TANORI71	MEXICO	5940	77	112	159	30	92	7	0	41	26
23	COCORAQUE75	MEXICO	5926	78	108	164	2	76	27	0	47	37
46	BULBUL	PAKISTAN	5923	77	123	172	18	104	23	4	34	15
42	H-RA(2)P(2)	INIA/MEX	5910	73	125	171	5	94	27	5	39	11
19	CHIROCA"S"	MEXICO	5825	75	120	173	2	105	3	7	33	26
13	SIETE CERROS	MEXICO	5804	74	129	173	10	102	20	13	31	15
10	MONCHO"S"	MEXICO	5757	76	123	170	8	99	23	2	42	4
17	TESOPACO"S"	MEXICO	5705	76	118	164	12	105	35	0	42	0
32	DOUGGA	TUNISIA	5699	74	128	173	8	94	3	2	33	7
44	EMU"S"	MEXICO	5664	77	125	166	22	92	32	1	33	7
36	UP301 X SON64-PI62	INDIA/LEB	5632	78	116	166	37	87	3	5	37	4
34	TORIM73	MEXICO	5631	76	117	166	27	73	1	2	36	15
1	HORK"S"	MEXICO	5614	76	123	173	5	101	17	4	34	15
47	M.J.INTA	ARGENTINA	5486	75	120	167	5	98	20	6	40	15
43	PJ-GB X NAI66	PAKISTAN	5447	76	124	171	12	91	50	7	36	7
20	CHOLI"S"	CHILE/MEX	5428	72	122	171	1	92	27	1	34	22
11	PAVON"S"	MEXICO	5413	77	124	173	12	96	3	7	35	15
48	YECORATO "6"	INIA/MEX	5397	70	122	168	3	74	24	1	39	56
9	MAGPIE"S"	MEXICO	5344	77	113	163	10	85	2	7	39	15
49	INIA66	MEXICO	5302	78	111	161	15	91	33	6	43	11
16	SOLTANE	TUNISIA	5291	76	118	167	17	99	20	0	40	7
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	5229	77	119	168	27	87	3	2	39	0
4	PAVON 76	MEXICO	5224	76	124	173	17	96	13	1	31	4
7	PAVON"S"	MEXICO	5189	75	125	173	15	105	23	7	37	0
28	NAOFEN	CHILE	5108	71	131	173	1	103	3	0	35	0
6	Y50E-KAL(3)	MEXICO	5067	74	130	174	10	107	27	13	37	7
37	KAL-BB	MEXICO	5032	69	124	172	17	73	0	0	26	26
21	ANTIZANA	ECUADOR	4967	77	113	167	10	87	37	7	51	37
38	MN7083	U.S.A.	4742	73	120	165	30	102	13	10	39	0
39	SONALIKA	INDIA	4696	75	109	164	0	92	14	2	49	67
14	S331-NOR67	INDIA/LEB	4577	68	131	172	15	104	20	0	32	4
2	BUTTE-ND519	U.S.A.	4446	77	122	166	2	108	12	0	36	18
45	IAS54	BRAZIL	4377	74	123	170	23	98	12	18	36	0
50	LOCAL CHECK		4140	76	110	156	0	111	63	1	43	96
40	E.DAKARU	URUGUAY	3939	74	127	171	12	117	13	3	32	0
33	GIZA155	EGYPT	3550	72	121	165	15	115	27	0	38	15
5	OLLANTA	PERU	2885	71	112	150	13	109	63	25	33	22
31	GLENLEA	CANADA	2841	66	127	167	30	116	37	2	31	0
		GRAND MEAN	5430.8	74.8	120.5	168.5	12.3	95.0	20.6	4.1	37.7	15.1
		STANDARD ERROR OF GRAND MEAN	45.1	0.1				0.4				
		COEFFICIENT OF VARIATION AS PC	10.1	2.3				4.6				
		LSD VARIETY MEANS 5 PC	886.2	2.8				7.2				

CORRELATIONS

YIELD	KG/HA								
TEST	WT	0.40							
FLOW	DAYS	-0.06	-0.32						
MAT	DAYS	0.30	-0.12	0.79					
STRP	RT.L	-0.19	-0.01	-0.05	-0.22				
PLNT	HT	-0.44	-0.48	0.21	-0.04	-0.04			
LOD	%	-0.27	-0.00	-0.22	-0.37	-0.19	0.20		
SHTR	%	-0.31	-0.02	-0.05	-0.03	0.14	0.15	0.25	
1000	G.W.	0.26	0.29	-0.68	-0.50	-0.13	-0.11	0.27	-0.13
SEPT	TRIT	-0.16	0.17	-0.42	-0.42	-0.40	-0.10	0.25	-0.09	0.25

LANGDON, FARGO
J.S.QUICK
LATITUDE 046 51'N DATE PLANTED 5/ 3/78 NITROGEN APPLIED
LONGITUDE 096 44'W DATE HARVESTED --/--/-- PHOSPHORUS APPLIED
ELEVATION M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: WALDRON

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT
15	MAPACHE (TRITICALE)	MEXICO	4360	62	52	5S	94
36	UP301 X SON64-PI62	INDIA/LEB ***	3371	76	33	10S	72
45	IAS54	BRAZIL	3073	72	56	30S	84
50	LOCAL CHECK		2890	74	55	20S	100
44	EMU"S"	MEXICO	2878	76	55	10S	70
2	BUTTE-ND519	U.S.A.	2878	73	53	TR	90
4	PAVON 76	MEXICO	2851	76	55	TR	80
17	TESOPACO"S"	MEXICO	2816	70	53	TR	85
11	PAVON"S"	MEXICO	2764	74	55	TR	81
28	NAOFEN	CHILE	2726	67	57	10S	77
5	OLLANTA	PERU	2726	73	49	40S	89
21	ANTIZANA	ECUADOR	2715	71	53	30S	76
24	MEXICALI75 (DURUM)	MEXICO	2690	66	52	TMR	81
10	MONCHO"S"	MEXICO	2652	74	57	TR	75
30	ABU-GHRAIB3	IRAQ	2500	69	52	5S	78
7	PAVON"S"	MEXICO	2502	74	63	TR	81
23	COCORAQUE75	MEXICO	2477	71	53	TMR	71
47	M.J.INTA	ARGENTINA	2473	70	57	5MR	86
31	GLENLEA	CANADA	2417	64	57	TMS	104
40	E.DAKARU	URUGUAY	2405	74	54	40S	93
42	H-RA(2)F(2)	INIA/MEX	2369	66	56	10S	70
46	BULBUL	PAKISTAN	2311	71	55	TMR	80
29	FLICKER"S"	MEXICO	2235	68	58	30S	74
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2233	70	50	10MS	70
39	SONALIKA	INDIA	2206	68	51	10S	81
48	YECORATO "S"	INIA/MEX	2150	69	52	TMR	50
38	MN7003	U.S.A.	2143	68	53	TR	80
16	SOLTANE	TUNISIA	2100	66	54	TMR	84
9	MAGPIE"S"	MEXICO	2087	66	56	TMR	69
49	INIA66	MEXICO	2070	73	52	30S	70
22	JUPATECO73	MEXICO	2035	70	53	10S	75
12	CUCKOO"S"	MEXICO	2022	66	52	10MS	75
34	TORIN73	MEXICO	1997	71	52	10MS	58
32	DOUGGA	TUNISIA	1973	67	57	5S	68
14	S331-NOR67	INDIA/LEB	1959	65	58	5MR	76
35	TANORI71	MEXICO	1852	68	50	60S	71
19	CHIROCA"S"	MEXICO	1710	68	56	TR	82
1	HORK"S"	MEXICO	1616	66	56	TMR	75
27	CONDOR"S"	AUSTRALIA	1578	64	56	50S	72
6	Y50E-KAL(3)	MEXICO	1562	64	57	10S	73
26	NACOZARI"S"	MEXICO	1536	61	53	30S	74
37	KAL-DB	MEXICO	1475	60	55	TMS	55
25	ANZA	U.S.A.	1473	63	57	80S	71
3	NACOZARI"S"	MEXICO	1437	61	52	TR	72
43	PJ-G[illegible] X NAI66	PAKISTAN	1374	64	56	20S	71
33	GIZA155	EGYPT	1316	64	53	80S	84
13	SIETE CERROS	MEXICO	1258	60	56	60S	67
18	NACOZARI76	MEXICO	948	57	53	10S	70
20	CHOLI"S"	CHILE/MEX	767	59	54	20S	69
		GRAND MEAN	2203.5	68.0	54.0	15.3	76.9
		STANDARD ERROR OF GRAND MEAN	29.8	0.2			0.3
		COEFFICIENT OF VARIATION AS PC	16.4	3.4			4.3
		LSD VARIETY MEANS 5 PC	585.6	3.7			5.4

CORRELATIONS

	YIELD KG/HA				
TEST	WT	0.65			
FLOW	DAYS	-0.24	-0.19		
LEAF	RUST	-0.32	-0.19	-0.03	
PLNT	HT	0.50	0.26	0.09	-0.03

PULLMAN
C.F.KONZAK
LATITUDE 046 02'N
LONGITUDE 117 08'W
ELEVATION 0762 M.ABOVE S.L.

DATE PLANTED 4/13/78
DATE HARVESTED 10/ 4/78
AMOUNT OF MOISTURE 561 MM

NITROGEN APPLIED
PHOSPHORUS --
POTASSIUM --

EARLY SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
THE AVERAGE MAXIMUM TEMPERATURE IN APRIL WAS 3.3 F BELOW NORMAL AND 5.3F BELOW NORMAL IN MAY WHICH REDUCED CROP DEVELOPMENT SIGNIFICANTLY.
LOCAL CHECK: WARED

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT	1000 G.W.
29	FLICKER"S"	MEXICO	3827	74	73	33
15	MAPACHE (TRITICALE)	MEXICO	3718	63	94	43
34	TORIM73	MEXICO	3680	75	53	38
1	HORK"S"	MEXICO	3547	75	72	30
18	NACOZARI76	MEXICO	3309	76	75	37
27	CONDOR"S"	AUSTRALIA	3309	77	60	35
3	NACOZARI"S"	MEXICO	3226	77	70	37
37	KAL-BB	MEXICO ***	3168	75	55	33
36	UP301 X SON64-PI62	INDIA/LEB	3155	75	67	38
12	CUCKOO"S"	MEXICO	3078	73	67	30
26	NACOZARI"S"	MEXICO	3078	77	74	37
23	COCORAQUE75	MEXICO	3002	75	69	36
44	EMU"S"	MEXICO	2995	77	74	37
19	CHIROCA"S"	MEXICO	2989	75	85	29
35	TANORI71	MEXICO	2938	74	74	38
21	ANTIZANA	ECUADOR	2912	77	76	42
9	MAGPIE"S"	MEXICO	2893	76	66	38
30	ABU-GHRAIB3	IRAQ	2848	75	77	29
25	ANZA	U.S.A.	2829	79	67	36
17	TESOPACO"S"	MEXICO	2778	74	84	38
31	GLENLEA	CANADA	2739	75	98	39
2	BUTTE-ND519	U.S.A.	2720	77	93	33
33	GIZA155	EGYPT	2720	76	89	39
14	S331-NOR67	INDIA/LEB	2714	69	81	34
49	INIA66	MEXICO	2701	76	62	38
22	JUPATECO73	MEXICO	2662	75	77	33
46	BULBUL	PAKISTAN	2509	76	82	31
39	SONALIKA	INDIA	2509	75	73	45
28	NAOFEN	CHILE	2502	73	87	35
16	SOLTANE	TUNISIA	2432	75	72	40
7	PAVON"S"	MEXICO	2400	77	81	35
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2365	76	63	38
50	LOCAL CHECK		2336	77	68	31
38	MN7083	U.S.A.	2317	75	80	36
24	MEXICALI75 (DURUM)	MEXICO	2310	75	79	53
48	YECORATO "S"	INIA/MEX	2298	75	54	30
20	CHOLI"S"	CHILE/MEX	2278	73	68	28
47	M.J.INTA	ARGENTINA	2259	75	74	40
10	MONCHO"S"	MEXICO	2240	74	73	40
42	H-RA(2)F(2)	INIA/MEX	2221	73	75	45
40	E.DAKARU	URUGUAY	2176	73	97	31
4	PAVON 76	MEXICO	1907	77	80	35
13	SIETE CERROS	MEXICO	1907	72	76	29
43	PJ-GB X NAI66	PAKISTAN	1760	73	71	28
11	PAVON"S"	MEXICO	1754	79	77	37
32	DOUGGA	TUNISIA	1683	73	78	32
5	OLLANTA	PERU	1459	72	88	33
6	Y50E-KAL(3)	MEXICO	1382	75	78	35
45	IAS54	BRAZIL	563	74	88	34
		GRAND MEAN	2593.9	74.8	75.4	35.8
		STANDARD ERROR OF GRAND MEAN	27.2			
		COEFFICIENT OF VARIATION AS PC	12.7			
		LSD VARIETY MEANS 5 PC	534.8			

CORRELATIONS

YIELD KG/HA				
TEST	WT	-0.02		
PLNT	HT	-0.27	-0.32	
1000	G.W.	0.10	0.00	-0.02

PALMERSTON NORTH
H.M.MCEWAN

LATITUDE	040 23'S	DATE PLANTED	9/23/77	NITROGEN	--
LONGITUDE	175 37'E	DATE HARVESTED	2/27/78	PHOSPHORUS	--
ELEVATION	0015 M.ABOVE S.L.	AMOUNT OF MOISTURE	233 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
UNUSUALLY DRY IN JANUARY AND FEBRUARY
SLIGHT DISEASE INCIDENCE. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: RONGOTE\

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT
1	HORK"S"	MEXICO	12150	81	75	85
50	LOCAL CHECK		12117	79	75	93
48	YECORATO "S"	INIA/MEX	11941	79	72	75
46	BULBUL	PAKISTAN	11897	83	75	100
3	NACOZARI"S"	MEXICO	11714	79	73	88
25	ANZA	U.S.A.	11553	80	75	85
18	NACOZARI76	MEXICO	11380	79	74	88
29	FLICKER"S"	MEXICO	11301	76	75	90
4	PAVON 76	MEXICO	11196	82	74	95
15	MAPACHE (TRITICALE)	MEXICO	11116	67	71	107
9	MAGPIE"S"	MEXICO	11092	77	71	77
37	KAL-BB	MEXICO	10999	79	74	70
12	CUCKOO"S"	MEXICO	10957	76	71	92
21	ANTIZANA	ECUADOR	10864	80	71	88
20	CHOLI"S"	CHILE/MEX	10800	76	73	83
27	CONDOR"S"	AUSTRALIA	10771	78	75	78
26	NACOZARI"S"	MEXICO	10720	78	73	88
19	CHIROCA"S"	MEXICO	10636	80	76	93
32	DOUGGA	TUNISIA ***	10580	80	76	90
14	S331-MOR67	INDIA/LEB	10503	77	79	100
13	SIETE CERROS	MEXICO	10350	80	76	88
10	MONCHO"S"	MEXICO	10317	79	74	95
42	H-RA(2)F(2)	INIA/MEX	10306	77	73	93
7	PAVON"S"	MEXICO	10195	82	77	98
47	M.J.INTA	ARGENTINA	10128	80	73	97
22	JUPATECO73	MEXICO	9943	79	73	87
30	ABU-GHRAIB3	IRAQ	9888	77	72	90
34	TORIM73	MEXICO	9879	79	71	67
36	UP301 X SON64-PI62	INDIA/LEB	9755	79	69	83
44	EMU"S"	MEXICO	9737	82	75	88
6	Y50E-KAL(3)	MEXICO	9732	80	77	95
17	TESOPACO"S"	MEXICO	9706	78	72	97
28	NAOPLN	CHILE	9558	76	79	100
16	SOLTANE	TUNISIA	9442	77	72	88
11	PAVON"S"	MEXICO	9439	79	76	97
43	PJ-GB X NAI66	PAKISTAN	9352	80	74	90
33	GIZA155	EGYPT	9205	88	72	100
40	Z.DAKAR 1	URUGUAY	9131	79	75	107
39	SONALIKA	INDIA	9070	78	71	85
49	INIA66	MEXICO	9057	80	69	83
35	TANORI71	MEXICO	8941	76	69	82
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	8928	78	68	83
23	COCORAQUE75	MEXICO	8752	75	70	75
24	MEXICALI75 (DURUM)	MEXICO	8691	77	67	85
2	BUTTL.ND519	U.S.A.	8393	80	73	99
5	OLLANTA	PERU	7983	76	68	97
45	IAS54	BRAZIL	7421	77	74	100
38	MN7083	U.S.A.	7386	76	72	83
31	GLENLEA	CANADA	6800	79	70	117
		GRAND MEAN	*10036	78.3	73.2	90.1
		STANDARD ERROR OF GRAND MEAN	63.1			0.3
		COEFFICIENT OF VARIATION AS PC	7.6			3.9
		LSD VARIETY MEANS 5 PC	1239.1			5.7

CORRELATIONS

YIELD	KG/HA			
TEST	WT	0.15		
FLOW	DAYS	0.23	0.33	
PLNT	HT	-0.25	-0.03	0.45

LA DULCE
CRIADERO BUCK
LATITUDE 038 28'S
LONGITUDE 059 48'W
ELEVATION 0072 M.ABOVE S.L.

DATE PLANTED 8/18/77
DATE HARVESTED 1/ 5/78
AMOUNT OF MOISTURE 254 MM

NITROGEN --
PHOSPHORUS --
POTASSIUM --

NORMAL SOWING TIME. DRY CONDITIONS OF SOIL AT SOWING. NO GENERAL DESCRIPTION OF WEATHER CONDITIONS. INSECT, WEED OR PEST PROBLEMS REPORTED. LOCAL CHECK: BUCK NANDO.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	SEPT TRIT
17	TESOPACO*S*	MEXICO	4583	79	59	122	90	20	22
38	MN7083	U.S.A. ***	4386	81	60	121	1	--	22
36	UP301 X SON64-PI62	INDIA/LEB	4303	81	55	120	1	--	22
21	ANTIZANA	ECUADOR	4250	80	59	122	5	--	33
15	MAPACHE (TRITICALE)	MEXICO	4250	65	54	118	5	--	11
11	PAVON*S*	MEXICO	4250	82	65	122	60	--	33
7	PAVON*S*	MEXICO	4220	82	66	124	30	1	22
47	M.J.INTA	ARGENTINA	4220	81	61	122	1	--	67
9	MAGPIE*S*	MEXICO	4193	78	70	127	40	--	33
42	H-RA(2)F(2)	INIA/MEX	4166	75	63	122	15	--	22
44	EMU*S*	MEXICO	4166	82	62	122	--	--	44
26	NACOZARI*S*	MEXICO	4166	81	63	122	80	40	33
45	IAS54	BRAZIL	4136	81	63	124	100	30	11
10	MONCHO*S*	MEXICO	4136	82	63	124	--	20	22
27	CONDOR*S*	AUSTRALIA	4083	81	62	121	40	10	22
3	NACOZARI*S*	MEXICO	4083	79	63	122	60	50	22
12	CUCKOO*S*	MEXICO	4083	80	61	120	--	30	44
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	4083	83	59	122	15	--	33
4	PAVON 76	MEXICO	4053	84	65	123	60	15	33
18	NACOZARI76	MEXICO	4053	77	63	123	15	20	33
48	YECORATO *S*	INIA/MEX	4000	79	61	122	1	--	67
30	ABU-GHRAIB3	IRAQ	3970	80	57	120	--	60	33
32	DOUGGA	TUNISIA	3943	80	64	121	15	10	22
25	ANZA	U.S.A.	3890	80	64	121	70	1	33
23	COCORAQUE75	MEXICO	3886	81	55	116	--	--	44
28	NAOFEM	CHILE	3886	77	68	125	--	40	22
40	E.DAKARU	URUGUAY	3803	80	66	124	50	--	33
46	BULBUL	PAKISTAN	3803	80	62	123	30	50	33
6	Y50E-KAL(3)	MEXICO	3800	79	64	123	30	5	33
14	S331-NOR67	INDIA/LEB	3776	76	70	127	30	5	33
29	FLICKER*S*	MEXICO	3750	75	64	123	15	--	44
13	SIETE CERROS	MEXICO	3720	79	65	123	15	10	56
2	BUTTE-ND519	U.S.A.	3694	80	64	122	--	--	41
43	PJ-GB X NAI66	PAKISTAN	3693	79	62	122	10	1	44
19	CHIROCA*S*	MEXICO	3666	81	65	123	1	--	33
16	SOLTANE	TUNISIA	3640	80	60	123	50	--	67
50	LOCAL CHECK		3610	82	67	125	60	--	22
20	CHOLI*S*	CHILE/MEX	3556	75	64	124	15	--	56
5	OLLANTA	PERU	3553	78	55	120	10	--	44
31	GLENLEA	CANADA	3500	79	68	125	--	5	67
1	HORK*S*	MEXICO	3416	79	64	122	--	--	56
49	INIA66	MEXICO	3386	80	54	120	50	--	78
35	TANORI71	MEXICO	3276	78	53	120	15	30	56
39	SONALIKA	INDIA	3193	75	54	120	--	--	78
24	MEXICALI75 (DURUM)	MEXICO	3166	73	55	123	--	--	67
33	GIZA155	EGYPT	3083	79	62	123	5	--	44
37	KAL-BB	MEXICO	3053	74	63	120	60	--	33
34	TORIM73	MEXICO	3053	79	53	120	--	1	67
22	JUPATECO73	MEXICO	2473	82	56	123	--	--	67
		GRAND MEAN	3818.3	79.0	61.5	122.2			39.9
		STANDARD ERROR OF GRAND MEAN	2.0	0.0					
		COEFFICIENT OF VARIATION AS PC	0.9	0.7					
		LSD VARIETY MEANS 5 PC	55.7	1.0					

CORRELATIONS

YIELD	KG/HA				
TEST	WT	0.17			
FLOW	DAYS	0.26	0.10		
MAT	DAYS	0.02	0.14	0.77	
SEPT	TRIT	-0.64	-0.03	-0.35	-0.10

SAN BENITO
G.SALAMANCA ET AL
LATITUDE 017 30'S
LONGITUDE 066 06'W
ELEVATION 2730 M.ABOVE S.L.

DATE PLANTED 12/22/77
DATE HARVESTED 5/30/78
AMOUNT OF MOISTURE 425 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NEGLIGIBLE INSECT DAMAGE. CHEMICAL CONTROL OF WEEDS.
LOCAL CHECK: CMINOLI 78

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.L	STEM RUST	PLNT HT	SEPT TRIT
24	MEXICALI75 (DURUM)	MEXICO	5432	56	127	0	TMS	85	39
49	INIA66	MEXICO	5260	74	127	10MS	TR	85	22
35	TANORI71	MEXICO	5195	56	128	5MR	5MS	90	22
48	YECORATO "S"	INIA/MEX	5065	58	126	0	0	70	73
9	MAGPIE"S"	MEXICO	5039	59	132	0	TMS	85	20
15	MAPACHE (TRITICALE)	MEXICO	5026	59	133	TR	0	105	17
21	ANTIZANA	ECUADOR	4960	59	127	10R	0	90	61
11	PAVON"S"	MEXICO	4924	62	128	0	0	95	22
5	OLLANTA	PERU	4882	56	129	0	TMS	105	20
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	4862	57	127	0	TMR	85	67
26	NACOZARI"S"	MEXICO	4836	61	127	5MR	TMS	80	22
42	H-RA(2)F(2)	INIA/MEX	4791	64	129	10MR	TR	90	20
3	NACOZARI"S"	MEXICO	4754	66	127	0	0	80	39
36	UP301 X SON64-PI62	INDIA/LEB	4721	55	127	0	TMS	80	33
39	SONALIKA	INDIA	4693	65	129	40MS	TMS	90	56
45	IAS54	BRAZIL	4658	60	127	10R	20S	95	20
31	GLENLEA	CANADA	4650	64	128	0	5MS	125	39
6	Y50E-KAL(3)	MEXICO	4560	64	130	0	0	90	44
4	PAVON 76	MEXICO	4543	61	128	0	TMR	90	20
38	MN7083	U.S.A.	4524	57	127	30MS	TMS	80	20
12	CUCKOO"S"	MEXICO	4521	58	126	10R	TMR	90	20
18	NACOZARI76	MEXICO	4469	58	127	0	TR	80	33
30	ABU-GHRAIB3	IRAQ	4460	59	133	30MS	TMR	95	39
7	PAVON"S"	MEXICO	4450	69	127	0	0	90	17
10	MONCHO"S"	MEXICO	4449	63	129	0	0	95	22
17	TESOPACO"S"	MEXICO	4411	59	129	TR	0	95	33
34	TORIM73	MEXICO	4326	58	128	5R	5MR	70	62
16	SOLTANE	TUNISIA	4308	62	127	10MS	TR	95	56
23	COCORAQUE75	MEXICO ***	4252	62	127	10MS	TR	85	39
19	CHIROCA"S"	MEXICO	4230	61	129	TR	TR	100	44
37	KAL-BB	MEXICO	4221	60	127	0	TMS	60	45
46	BULBUL	PAKISTAN	4210	58	127	30MS	10S	90	62
43	PJ-GB X NAI66	PAKISTAN	4054	63	127	40MS	TR	80	64
28	NAOFEN	CHILE	3969	66	129	TMR	10S	95	20
29	FLICKER"S"	MEXICO	3889	67	133	5MS	0	90	20
22	JUPATECO73	MEXICO	3873	62	127	30MS	TMR	95	45
47	M.J.INTA	ARGENTINA	3869	66	127	10MS	0	95	33
2	BUTTE-ND519	U.S.A.	3784	65	129	5R	TMS	105	20
13	SIETE CERROS	MEXICO	3739	62	131	40MS	TR	85	67
20	CHOLI"S"	CHILE/MEX	3687	50	128	40MS	TR	85	56
25	ANZA	U.S.A.	3635	64	120	10MS	10MS-S	80	33
32	DOUGGA	TUNISIA	3443	63	127	TMS	5MS	80	50
44	EMU"S"	MEXICO	3415	62	127	0	0	90	45
27	CONDOR"S"	AUSTRALIA	3145	62	120	0	0	75	33
40	E.DAIARU	URUGUAY	3145	50	129	5R	TMR	105	67
33	GIZA155	EGYPT	3087	65	130	TR	0	100	50
14	S331-MOR67	INDIA/LEB	2982	65	120	0	0	90	20
50	LOCAL CHECK		2897	67	127	0	100	105	44
1	MORK"S"	MEXICO	2345	65	127	TR	0	90	56
		GRAND MEAN	4257.9	61.6	128.2	5.3	1.3	89.5	40.1

STANDARD ERROR OF GRAND MEAN 47.2
COEFFICIENT OF VARIATION AS PC 13.4
LSD VARIETY MEANS 5 PC 927.7

CORRELATIONS

YIELD	KG/HA					
FLOW	DAYS	-0.31				
MAT	DAYS	0.01	0.04			
STRP	RT.L	-0.07	-0.03	0.01		
STEM	RUST	-0.02	0.03	-0.19	-0.02	
PLNT	HT	-0.10	0.17	0.31	-0.09	0.25
SEPT	TRIT	-0.27	-0.19	-0.19	0.40	-0.00	-0.21

EST EXP ARMANDO GOMEZ
E. IGNACIO ET AL
LATITUDE 18 39'S
LONGITUDE 63 01'W
ELEVATION 386 M.ABOVE S.L.

DATE PLANTED 5/26/78
DATE HARVESTED 9/26/78
AMOUNT OF MOISTURE 785 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION POOR.
FROST DAMAGE AT THE MILK STAGE AFFECTED THE LATER VARIETIES.
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: TG-711

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	SHTR %
15	MAPACHE (TRITICALE)	MEXICO	3280	50	107	---	TR	65	0
12	CUCKOO"S"	MEXICO	3274	51	110	---	30S	62	0
30	ABU-GHRAIB3	IRAQ	3225	51	111	---	20MS-S	62	0
28	NAOPEN	CHILE	3098	73	126	---	40S-MS	74	0
37	KAL-BB	MEXICO	2918	52	106	---	10MS	50	0
16	SOLTANE	TUNISIA	2893	55	115	---	30MS-MR	77	20
22	JUPATECO73	MEXICO	2883	56	112	TS	20S-MS	69	0
18	NACOZARI76	MEXICO	2873	51	103	---	5MS	62	5
46	BULBUL	PAKISTAN	2860	51	112	---	30MS-S	62	10
33	GIZA155	EGYPT	2775	67	124	20S	5S	83	0
44	EMU"S"	MEXICO	2741	54	105	5S	20MS-S	63	0
27	CONDOR"S"	AUSTRALIA	2727	54	124	60S	10S-MS	68	5
7	PAVON"S"	MEXICO	2722	70	120	---	10MS-S	75	5
29	FLICKER"S"	MEXICO	2686	82	124	---	30MS-S	78	10
20	CHOLI"S"	CHILE/MEX	2639	52	105	20S	10MS-MR	63	5
24	MEXICALI75 (DURUM)	MEXICO ***	2523	51	104	---	0	59	0
21	ANTIZANA	ECUADOR	2521	51	106	---	10MR	60	5
38	MN7083	U.S.A.	2513	51	102	---	TMR	58	5
49	INIA66	MEXICO	2513	52	98	---	5MS	60	5
23	COCORAQUE75	MEXICO	2510	54	108	---	5MS	69	0
35	TANORI71	MEXICO	2498	51	97	5MR	0	57	0
26	NACOZARI"S"	MEXICO	2466	51	105	10MS	10MS	61	10
34	TORIM73	MEXICO	2438	52	94	---	0	45	0
3	NACOZARI"S"	MEXICO	2438	51	101	---	10MS-MR	59	10
2	BUTTE-ND519	U.S.A.	2390	55	113	---	TR	80	0
1	HORK"S"	MEXICO	2376	55	107	---	10S-MS	73	0
19	CHIROCA"S"	MEXICO	2371	53	114	---	20MR-MS	68	0
48	YECORATO "S"	INIA/MEX	2308	52	107	---	50S	48	0
50	LOCAL CHECK		2251	54	106	5S	30S-MS	57	5
25	ANZA	U.S.A.	2226	59	125	70S	10MS-S	72	5
9	MAGPIE"S"	MEXICO	2199	54	108	---	30MS-S	67	0
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2115	57	113	70S	10MR-MS	68	5
43	PJ-GB X NAI66	PAKISTAN	2046	52	102	20MS	5S	61	5
14	S331-NOR67	INDIA/LEB	2004	60	110	---	10MS-MR	75	5
32	DOUGGA	TUNISIA	1997	55	108	---	10MS	61	5
17	TESOPACO"S"	MEXICO	1966	52	99	---	5MS	71	20
13	SIETE CERROS	MEXICO	1874	52	105	20S	10S	65	30
4	PAVON 76	MEXICO	1873	56	104	---	TMS	69	5
40	E.DAKARU	URUGUAY	1794	68	125	---	60MR-MS	76	5
6	Y50E-KAL(3)	MEXICO	1786	53	107	---	10S-MS	65	20
39	SONALIKA	INDIA	1739	48	94	TMS	0	61	5
11	PAVON"S"	MEXICO	1690	55	105	---	10MS-MR	66	5
31	GLENLEA	CANADA	1671	68	121	---	30MR-MS	85	5
10	MONCHO"S"	MEXICO	1636	60	113	---	40S	72	5
36	UP301 X SON64-PI62	INDIA/LEB	1503	48	94	---	TMR	50	30
42	H-RA(2)F(2)	INIA/MEX	1478	72	116	---	5MS	76	10
45	IAS54	BRAZIL	1429	62	116	10S	50S	75	20
5	OLLANTA	PERU	1004	49	91	---	10MR-MS	63	50
47	M.J.INTA	ARGENTINA	-	82	-	20MS-S	10S	-	-
		GRAND MEAN	2327.9	56.4	108.7	21.7	7.0	65.9	7.0
								8.3	
	STANDARD ERROR OF GRAND MEAN		30.5					4.0	
	COEFFICIENT OF VARIATION AS PC		15.7					5.2	
	LSD VARIETY MEANS 5 PC		593.1						

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	-0.05					
MAT	DAYS	0.23	0.68				
LEAF	RUST	0.00	0.13	0.76			
STEM	RUST	0.15	0.07	0.30	-0.10		
PLNT	HT	-0.11	0.62	0.71	0.30	-0.05	
SHTR	%	-0.57	-0.10	-0.29	-0.00	-0.10	-0.01

DOS CERRADOS
CENT. PES. AGRO.
LATITUDE 015 45'S
LONGITUDE 047 47'W
ELEVATION 1000 M.ABOVE S.L.

DATE PLANTED 5/ 3/78
DATE HARVESTED 8/17/78
AMOUNT OF MOISTURE 57 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: IAC-5

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.
22	JUPATECO73	MEXICO	2520	83	59	--	50R	80	40
10	MONCHO"S"	MEXICO	2508	81	64	0	50S	80	40
1	HORK"S"	MEXICO	2460	82	62	--	50S	75	31
15	MAPACHE (TRITICALE)	MEXICO	1960	-	51	3MR	0	85	30
50	LOCAL CHECK		1949	78	63	50S	20S	100	36
11	PAVON"S"	MEXICO	1859	82	92	50S	10R	70	35
47	M.J.INTA	ARGENTINA	1800	81	78	60MR	5R	60	37
14	S331-WOR67	INDIA/LEB ***	1629	79	62	10MS	0	80	34
4	PAVON 76	MEXICO	1567	80	60	70S	80R	75	33
9	MAGPIE"S"	MEXICO	1560	74	64	70S	30MR	75	22
16	SOLTANE	TUNISIA	1541	82	66	95S	10R	80	39
23	COCORAQUE75	MEXICO	1421	83	61	--	30R	60	35
42	H-RA(2)F(2)	INIA/MEX	1420	77	70	70MS	20R	80	39
33	GIZA155	EGYPT	1360	80	71	50S	5R	55	40
21	ANTIZANA	ECUADOR	1356	70	54	0	50MS	65	30
45	IAB54	BRAZIL	1327	75	74	95S	90S	65	23
38	MN7983	U.S.A.	1323	82	54	10R	0	60	39
13	SIETE CERROS	MEXICO	1259	77	53	40S	30R	70	27
19	CHIROCA"S"	MEXICO	1233	83	56	30MS	50R	75	33
40	E.DAKARU	URUGUAY	1199	80	70	----	5R	65	36
26	NACOZARI"S"	MEXICO	1180	81	51	20S	40R	60	33
7	PAVON"S"	MEXICO	1167	79	77	60S	20S	65	31
17	TESOPACO"S"	MEXICO	1165	78	59	30MR	0	80	34
49	INIA66	MEXICO	1147	79	52	50S	30R	65	30
32	DOUGGA	TUNISIA	1121	80	62	30S	40R	55	33
24	MEXICALI75 (DURUM)	MEXICO	1117	78	56	0	--	65	40
48	YECORATO "S"	INIA/MEX	1104	78	53	40S	80MS	60	29
43	PJ-GB X NAI66	PAKISTAN	1103	79	54	40S	60R	70	30
36	UP301 X SON64-PI62	INDIA/LEB	1092	80	50	15MS	10R	55	35
25	ANZA	U.S.A.	1079	81	61	90S	5R	65	31
12	CUCKOO"S"	MEXICO	1051	80	51	60S	80S	70	26
31	GLENLEA	CANADA	1007	76	70	60S	20R	65	40
6	Y50E-KAL(3)	MEXICO	969	79	55	40S	30R	70	32
5	OLLANTA	PERU	943	79	47	15S	0	70	34
44	EMU"S"	MEXICO	941	81	57	30S	5R	70	35
34	TORIM73	MEXICO	935	78	51	20S	5R	45	31
27	CONDOR"S"	AUSTRALIA	916	81	61	70S	5R	50	33
3	NACOZARI"S"	MEXICO	860	80	49	70S	70R	65	33
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	855	80	56	30S	50R	65	27
35	TANORI71	MEXICO	847	81	50	10S	30R	60	32
29	FLICKER"S"	MEXICO	780	77	69	50S	5R	50	31
18	NACOZARI76	MEXICO	761	83	51	20S	40R	75	35
2	BUTTE-ND519	U.S.A.	760	74	54	0	80S	90	25
30	ABU-GHRAIB3	IRAQ	759	76	53	10MS	80S	55	24
46	BULBUL	PAKISTAN	643	72	52	60S	80MS	70	22
39	SONALIKA	INDIA	637	79	50	40S	50MS	65	43
28	NAOFEN	CHILE	524	68	72	--	90S	60	19
37	KAL-BB	MEXICO	480	77	53	40S	15MS	45	31
20	CHOLI"S"	CHILE/MEX	431	69	52	15S	80MS	60	19
		GRAND MEAN	1217.0	78.7	59.4	37.0	20.9	67.4	32.4

STANDARD ERROR OF GRAND MEAN 34.5
COEFFICIENT OF VARIATION AS PC 34.4
LSD VARIETY MEANS 5 PC 677.7

CORRELATIONS

YIELD	KG/HA						
TEST	WT	0.47					
FLOW	DAYS	0.36	0.00				
LEAF	RUST	-0.00	-0.02	0.40			
STEM	RUST	-0.10	-0.59	-0.07	0.00		
PLNT	HT	0.53	0.08	0.08	-0.03	0.04	
1000	G.W.	0.41	0.64	0.09	-0.21	-0.57	0.15

LONDRINA
M.ALCOVER
LATITUDE 023 20'S
LONGITUDE 051 08'W
ELEVATION M.ABOVE S.L.

DATE PLANTED 5/19/78
DATE HARVESTED 9/--/78
AMOUNT OF MOISTURE 488 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
ABNORMAL DROUGHT CONDITIONS DURING THE TRIAL.
LOCAL CHECK: JUPATECO F 73

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.
47	M.J.INTA	ARGENTINA	2333	76	66	130	30S	TMR	65	38
29	FLICKER"S"	MEXICO	2313	71	68	130	TR	TMR	45	36
42	H-RA(2)F(2)	INIA/MEX	2177	74	66	130	TR	TR	60	41
40	E.DAKARU	URUGUAY	1969	79	70	139	10S	TR	70	33
15	MAPACHE (TRITICALE)	MEXICO	1896	63	60	133	10MR	5MR	60	34
32	DOUGGA	TUNISIA	1844	76	67	129	10MR	10MR	60	31
28	NAOFEN	CHILE ***	1729	71	75	132	TR	40S	65	26
38	MN7083	U.S.A.	1719	76	58	129	TR	TR	60	39
24	MEXICALI75 (DURUM)	MEXICO	1708	71	57	129	TMR	10MS	55	56
11	PAVON"S"	MEXICO	1688	77	67	127	30S	30S	60	35
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	1688	76	58	129	10S	50S	60	34
33	GIZA155	EGYPT	1667	78	60	134	20S	10MS	65	36
21	ANTIZANA	ECUADOR	1635	76	57	128	TR	5MR	55	43
7	PAVON"S"	MEXICO	1625	73	74	127	30S	5MS	60	28
19	CHIROCA"S"	MEXICO	1594	78	61	132	TR	20S	55	34
44	EMU"S"	MEXICO	1594	80	59	132	TR	20MS	60	42
16	SOLTANE	TUNISIA	1594	76	59	128	50S	10MR	60	38
48	YECORATO "S"	INIA/MEX	1594	74	58	119	10S	40S	50	38
27	CONDOR"S"	AUSTRALIA	1552	74	57	122	70S	40S	55	32
10	MONCHO"S"	MEXICO	1542	72	67	127	50S	60S	60	36
18	NACOZARI76	MEXICO	1531	72	59	127	50S	50S	60	35
31	GLENLEA	CANADA	1510	76	71	107	10MS	TMR	70	38
14	S331-NOR67	INDIA/LEB	1500	73	73	129	10MS	5MR	55	33
4	PAVON 76	MEXICO	1438	76	68	128	50S	20S	60	36
26	NACOZARI"S"	MEXICO	1427	74	58	122	60S	50S	60	34
37	KAL-BB	MEXICO	1427	70	59	119	50S	30S	50	34
2	BUTTE-ND519	U.S.A.	1427	76	66	129	TR	10MS	65	34
3	NACOZARI"S"	MEXICO	1417	72	59	116	80S	30S	50	34
23	COCORAQUE75	MEXICO	1354	75	57	129	70S	20S	55	39
17	TESOPACO"S"	MEXICO	1313	74	58	122	10MS	20S	60	32
20	CHOLI"S"	CHILE/MEX	1313	75	59	135	TR	5MR	55	32
9	MAGPIE"S"	MEXICO	1292	76	59	126	60S	15MR	50	35
45	IAS54	BRAZIL	1292	75	67	129	30S	50S	65	27
43	PJ-GB X NAI66	PAKISTAN	1281	76	59	122	10S	50S	55	37
50	LOCAL CHECK		1222	-	-	-	----	----	-	-
39	SONALIKA	INDIA	1219	73	54	119	90S	40S	55	48
1	HORK"S"	MEXICO	1219	76	66	122	80S	20S	55	27
6	Y50E-KAL(3)	MEXICO	1200	71	67	119	80S	20S	65	36
25	ANZA	U.S.A.	1167	75	63	127	50S	30S	50	33
13	SIETE CERROS	MEXICO	1135	73	66	116	90S	30S	55	34
30	ABU-GHRAIB3	IRAQ	1094	71	54	114	60S	60S	45	31
49	INIA66	MEXICO	1083	76	55	119	80S	20S	50	33
46	BULBUL	PAKISTAN	1083	71	58	119	30S	60S	60	30
12	CUCKOO"S"	MEXICO	1031	74	57	116	40S	70S	60	32
34	TORIM73	MEXICO	1031	74	56	116	40S	30S	40	35
5	OLLANTA	PERU	1010	72	54	119	80S	5MS	65	34
22	JUPATECO73	MEXICO	979	76	57	119	90S	30S	60	36
36	UP301 X SON64-PI62	INDIA/LEB	896	74	55	119	80S	10MS	55	35
35	TANORI71	MEXICO	729	68	55	116	100S	60S	50	23
		GRAND MEAN	1450.7	74.1	61.5	124.7	37.4	24.0	57.4	34.7

STANDARD ERROR OF GRAND MEAN 24.9
COEFFICIENT OF VARIATION AS PC 20.8
LSD VARIETY MEANS 5 PC 488.7

CORRELATIONS

YIELD	KG/HA							
TEST	WT	0.12						
FLOW	DAYS	0.48	0.09					
MAT	DAYS	0.65	0.26	0.33				
LEAF	RUST	-0.66	-0.20	-0.35	-0.58			
STEM	RUST	-0.48	-0.24	-0.29	-0.42	0.35		
PLNT	HT	0.28	0.24	0.43	0.30	-0.25	-0.20	
1000	G.W.	0.29	0.15	-0.25	0.10	-0.19	-0.30	-0.01

CRUZ ALTA
WHEAT STAFF
LATITUDE 028 38'S
LONGITUDE 053 36'W
ELEVATION 0473 M.ABOVE S.L.

DATE PLANTED 6/ 6/78
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE 659 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
SOME INSECT DAMAGE.
BIRD DAMAGE NOT REPORTED.
LOCAL CHECK: PAT 7219

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT	POWD %	SEPT TRIT	SEPT NODO	SCAB %
15	MAPACHE (TRITICALE)	MEXICO	2459	57	100	0	80	80	80
10	MONCHO"S"	MEXICO ***	2017	71	90	80	100	100	100
50	LOCAL CHECK		1808	75	105	80	60	20	-
22	JUPATECO73	MEXICO	1651	72	85	60	100	60	80
19	CHIROCA"S"	MEXICO	1626	74	90	40	100	100	80
2	BUTTE-ND519	U.S.A.	1530	71	95	40	100	60	100
9	MAGPIE"S"	MEXICO	1520	66	80	80	100	80	100
12	CUCKOO"S"	MEXICO	1515	68	80	40	100	100	100
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	1512	69	80	20	60	80	60
45	IAS54	BRAZIL	1486	66	90	80	80	40	-
30	ABU-GHRAIB3	IRAQ	1470	67	80	60	100	60	100
28	NAOPEN	CHILE	1450	62	80	60	100	40	-
11	PAVON"S"	MEXICO	1448	70	85	40	100	80	60
7	PAVON"S"	MEXICO	1434	66	90	40	-	40	-
23	COCORAQUE75	MEXICO	1405	72	75	60	100	60	80
49	INIA66	MEXICO	1390	75	85	60	100	100	100
26	NACOZARI"S"	MEXICO	1386	68	80	60	100	40	-
4	PAVON 76	MEXICO	1354	67	80	60	100	60	100
36	UP301 X SON64-PI62	INDIA/LEB	1311	71	80	80	100	60	100
3	NACOZARI"S"	MEXICO	1293	65	70	80	100	100	100
1	HORK"S"	MEXICO	1289	63	85	80	-	100	100
48	YECORATO "S"	INIA/MEX	1286	70	70	80	100	60	60
40	E.DAKARU	URUGUAY	1236	62	95	40	100	80	80
17	TESOPACO"S"	MEXICO	1218	65	95	80	-	100	80
25	ANZA	U.S.A.	1188	67	80	60	100	100	100
34	TORIM73	MEXICO	1186	71	70	40	80	80	60
21	ANTIZANA	ECUADOR	1173	71	85	40	100	100	100
44	EMU"S"	MEXICO	1140	74	80	60	100	60	80
29	FLICKER"S"	MEXICO	1132	63	80	40	60	80	100
20	CHOLI"S"	CHILE/MEX	1120	62	85	60	100	100	100
35	TANORI71	MEXICO	1106	68	80	40	100	100	100
16	SOLTANE	TUNISIA	1095	66	80	80	100	100	100
13	SIETE CERROS	MEXICO	1082	62	75	20	100	80	100
42	H-RA(2)F(2)	INIA/MEX	1077	57	85	80	100	60	100
27	CONDOR"S"	AUSTRALIA	1074	68	70	80	100	40	100
47	M.J.INTA	ARGENTINA	1064	63	85	60	100	80	80
46	BULBUL	PAKISTAN	1053	64	85	80	100	100	100
38	MN7083	U.S.A.	1049	71	85	60	100	80	100
18	NACOZARI76	MEXICO	1015	62	80	60	100	100	100
5	OLLANTA	PERU	1007	66	90	20	80	80	80
14	S331-NOR67	INDIA/LEB	1005	53	85	40	100	100	100
6	Y50E-KAL(3)	MEXICO	1002	59	80	20	100	100	100
31	GLENLEA	CANADA	976	60	100	60	100	100	100
32	DOUGGA	TUNISIA	967	60	70	40	60	60	60
43	PJ-GB X NAI66	PAKISTAN	913	62	80	60	100	80	60
37	KAL-BB	MEXICO	796	60	65	0	100	80	100
24	MEXICALI75 (DURUM)	MEXICO	793	64	80	20	100	60	80
39	SONALIKA	INDIA	566	67	80	40	100	60	80
33	GIZA155	EGYPT	221	-	95	80	100	100	100
	GRAND MEAN		1242.9	66.1	83.2	53.9	94.8	77.1	89.5

STANDARD ERROR OF GRAND MEAN 17.7
COEFFICIENT OF VARIATION AS PC 17.3
LSD VARIETY MEANS 5 PC 340.1

CORRELATIONS

YIELD	KG/HA						
TEST	WT	0.28					
PLNT	HT	0.31	0.03				
POWD	%	-0.00	0.26	0.08			
SEPT	TRIT	-0.22	0.00	-0.12	0.22		
SEPT	NODO	-0.19	-0.21	0.04	-0.09	0.27	
SCAB	%	-0.00	-0.15	0.12	0.24	0.40	0.26

QUILAMAPU
M.MELLADO
LATITUDE 036 34'S
LONGITUDE 072 06'W
ELEVATION 0144 M.ABOVE S.L.

DATE PLANTED 9/ 5/77
DATE HARVESTED 2/ 1/78
AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
DRY SPELL AFTER PLANTING BUT LATER ABNORMALLY WET.
NEGLIGIBLE INSECT DAMAGE. LOCAL CHECK: ANTUPEN

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	STRP RT.L	LEAF RUST	PLNT HT
7	PAVON"S"	MEXICO	3314	81	78	TR	0	77
10	MONCHO"S"	MEXICO	3268	80	78	0	0	82
15	MAPACHE (TRITICALE)	MEXICO	3222	64	70	0	0	85
11	PAVON"S"	MEXICO	3213	82	76	TR	0	82
3	NACOZARI"S"	MEXICO	3157	80	70	10MS	20MS	73
28	NAOPEN	CHILE	2926	77	78	0	0	82
21	ANTIZANA	ECUADOR	2842	80	71	TR	0	78
18	NACOZARI76	MEXICO	2833	80	71	10MR	0	75
9	MAGPIE"S"	MEXICO	2787	77	70	5R	5MS	73
36	UP301 X SON64-PI62	INDIA/LEB	2787	80	69	60MS	10MS	73
42	H-RA(2)F(2)	INIA/MEX	2759	77	76	40MR	20MS	78
25	ANZA	U.S.A.	2750	83	77	20MS	40S	72
47	M.J.INTA	ARGENTINA	2740	81	76	20MS	0	82
44	EMU"S"	MEXICO	2731	83	71	0	0	77
4	PAVON 76	MEXICO	2694	81	71	TR	0	77
27	CONDOR"S"	AUSTRALIA	2676	82	77	30MS	20MS	68
2	BUTTE-ND519	U.S.A. ***	2657	82	70	40S	0	92
12	CUCKOO"S"	MEXICO	2648	80	70	20MS	30S	73
19	CHIROCA"S"	MEXICO	2629	82	75	TR	0	82
30	ABU-GHRAIB3	IRAQ	2629	80	69	40S	40S	75
26	NACOZARI"S"	MEXICO	2611	80	71	20MS	20MS	75
46	BULBUL	PAKISTAN	2546	82	72	30MS	10MR	83
48	YECORATO "S"	INIA/MEX	2546	80	71	30MR	0	58
50	LOCAL CHECK		2537	79	77	20S	30S	80
1	HORK"S"	MEXICO	2528	82	73	10MR	0	73
40	E.DAKARU	URUGUAY	2509	80	75	50MS	30MS	93
32	DOUGGA	TUNISIA	2398	80	77	20MR	0	73
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2342	81	68	40MR	0	68
16	SOLTANE	TUNISIA	2268	80	71	20MR	0	78
20	CHOLI"S"	CHILE/MEX	2250	79	71	30MR	30MS	72
38	MN7883	U.S.A.	2250	80	71	40MS	0	78
14	S331-NOR67	INDIA/LEB	2241	74	77	30MR	0	80
37	KAL-BB	MEXICO	2222	74	71	TR	0	58
6	Y50E-KAL(3)	MEXICO	2203	81	77	TR	20MS	78
17	TESOPACO"S"	MEXICO	2176	76	71	30MR	0	83
39	SONALIKA	INDIA	2092	78	69	30MS	30MS	80
29	PLICKER"S"	MEXICO	2065	78	77	TR	40S	73
23	COCORAQUE75	MEXICO	2028	81	69	40MR	0	63
5	OLLANTA	PERU	1926	78	69	10MR	40S	88
13	SIETE CERROS	MEXICO	1916	76	77	40MS	30MS	75
22	JUPATECO73	MEXICO	1833	78	70	80S	0	70
35	TANORI71	MEXICO	1805	78	68	40MS	5MS	60
43	PJ-GB X NAI66	PAKISTAN	1768	79	72	50MR	5MS	73
49	INIA66	MEXICO	1722	78	69	30MR	40S	72
33	GIZA155	EGYPT	1648	79	70	0	20MS	93
24	MEXICALI75 (DURUM)	MEXICO	1648	75	68	20MR	30MS	65
31	GLENLEA	CANADA	1620	74	77	10MR	10MS	107
45	IAS54	BRAZIL	1574	75	73	99S	0	83
34	TORIM73	MEXICO	1454	79	69	10MR	20MS	57
		GRAND MEAN	2407.9	78.9	72.5	13.3	16.3	76.7
		STANDARD ERROR OF GRAND MEAN	27.0	0.0			1.4	0.3
		COEFFICIENT OF VARIATION AS PC	13.6	1.4			82.6	4.9
		LSD VARIETY MEANS 5 PC	530.1	1.7			27.1	6.0

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.22				
FLOW	DAYS	0.29	0.08			
STRP	RT.L	-0.26	-0.03	-0.15		
LEAF	RUST	-0.37	0.04	-0.05	-0.02	
PLNT	HT	0.09	-0.14	0.31	0.06	0.10

LA PLATINA
J.RAMIREZ

LATITUDE	033 27'S	DATE PLANTED	8/26/77	NITROGEN	APPLIED
LONGITUDE	070 38'W	DATE HARVESTED	1/12/78	PHOSPHORUS	APPLIED
ELEVATION	0629 M.ABOVE S.L.	AMOUNT OF MOISTURE	275 MM	POTASSIUM	--

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WINTER RAINFALL HIGHER THAN AVERAGE, WITH FEW FROSTS. WARM DAMP SPRING.
SEVERE INFESTATION OF CEREAL APHID. LOCAL CHECK: AURIFEN

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT
45	IAS54	BRAZIL	3104	79	95
7	PAVON"S"	MEXICO	2813	80	75
48	YECORATO "S"	INIA/MEX	2722	78	70
28	NAOFEN	CHILE	2709	77	70
47	M.J.INTA	ARGENTINA	2674	78	90
42	H-RA(2)F(2)	INIA/MEX	2674	75	75
22	JUPATECO73	MEXICO	2584	80	85
29	FLICKER"S"	MEXICO	2549	77	80
46	[illegible]UL.BUL	PAKISTAN	2493	80	95
15	MAPACHE (TRITICALE)	MEXICO	2452	68	95
6	Y50E-KAL(3)	MEXICO	2424	78	80
25	ANZA	U.S.A.	2410	80	75
18	NACOZARI76	MEXICO	2361	82	75
44	EMU"S"	MEXICO	2361	81	80
36	UP301 X SON64-PI62	INDIA/LEB	2347	77	75
26	NACOZARI"S"	MEXICO	2299	77	80
21	ANTIZANA	ECUADOR ***	2264	78	90
27	CONDOR"S"	AUSTRALIA	2257	80	70
3	NACOZARI"S"	MEXICO	2250	76	80
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2202	80	75
4	PAVON 76	MEXICO	2188	79	90
50	LOCAL CHECK		2188	79	70
43	PJ-GB X NAI66	PAKISTAN	2125	80	80
49	INIA66	MEXICO	2125	77	80
13	SIETE CERROS	MEXICO	2070	78	75
20	CHOLI"S"	CHILE/MEX	2056	79	90
12	CUCKOO"S"	MEXICO	2028	78	75
11	PAVON"S"	MEXICO	1986	77	80
17	TESOPACO"S"	MEXICO	1986	76	90
1	HORK"S"	MEXICO	1972	80	75
10	MONCHO"S"	MEXICO	1965	79	80
32	DOUGGA	TUNISIA	1889	79	65
16	SOLTANE	TUNISIA	1882	77	85
38	MN7083	U.S.A.	1868	79	75
14	S331-NOR67	INDIA/LEB	1854	73	70
30	ABU-GHRAIB3	IRAQ	1827	77	60
2	BUTTE-ND519	U.S.A.	1778	78	105
37	KAL-BB	MEXICO	1771	71	65
19	CHIROCA"S"	MEXICO	1715	81	90
5	OLLANTA	PERU	1715	72	95
9	MAGPIE"S"	MEXICO	1653	73	70
34	TORIM73	MEXICO	1646	79	55
23	COCORAQUE75	MEXICO	1625	78	75
40	E.DAKARU	URUGUAY	1625	76	85
35	TAMORI71	MEXICO	1583	74	75
24	MEXICALI75 (DURUM)	MEXICO	1257	68	80
31	GLENLEA	CANADA	1257	73	90
39	SONALIKA	INDIA	1132	73	80
33	GIZA155	EGYPT	924	73	85
		GRAND MEAN	2074.3	77.1	80.0
		STANDARD ERROR OF GRAND MEAN	34.2		
		COEFFICIENT OF VARIATION AS PC	20.0		
		LSD VARIETY MEANS 5 PC	672.7		

CORRELATIONS

YIELD KG/HA		
TEST	WT	0.47
PLNT	HT	0.04 -0.09

TIBAITATA
M.ZAPATA

LATITUDE	004 04'N	DATE PLANTED	3/20/78	NITROGEN	--
LONGITUDE	074 12'W	DATE HARVESTED	9/ 4/78	PHOSPHORUS	--
ELEVATION	2550 M.ABOVE S.L.	AMOUNT OF MOISTURE	368 MM	POTASSIUM	--

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. WEED PROBLEMS
LOCAL CHECK: BONZA 63

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.	SEPT TRIT
15	MAPACHE (TRITICALE)	MEXICO	5849	-	84	180	122	46	11
42	H-RA(2)F(2)	INIA/MEX	5372	64	92	180	107	45	22
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	5061	70	86	174	90	43	33
36	UP301 X SON64-PI62	INDIA/LEB	4905	72	82	172	90	49	11
22	JUPATECO73	MEXICO	4894	72	82	176	102	42	26
17	TESOPACO"S"	MEXICO	4877	68	81	174	112	45	11
30	ABU-GHRAIB3	IRAQ	4855	68	89	170	93	38	18
46	BULBUL	PAKISTAN	4761	70	84	171	108	43	22
4	PAVON 76	MEXICO	4716	70	81	173	103	44	18
25	ANZA	U.S.A.	4672	67	89	174	92	32	37
45	IAS54	BRAZIL	4661	67	91	176	117	37	18
16	SOLTANE	TUNISIA	4577	70	87	176	105	45	26
29	FLICKER"S"	MEXICO	4522	67	96	178	102	38	11
28	NAOFEN	CHILE	4444	62	95	180	103	36	11
44	EMU"S"	MEXICO	4300	70	87	172	100	41	22
26	NACOZARI"S"	MEXICO	4294	70	82	171	95	37	15
11	PAVON"S"	MEXICO	4277	69	80	175	102	43	15
3	NACOZARI"S"	MEXICO	4205	68	82	172	95	39	11
7	PAVON"S"	MEXICO	4083	64	95	177	107	35	15
30	MN7083	U.S.A.	4072	68	82	167	98	39	11
43	PJ-GB X NAI66	PAKISTAN	4072	66	84	172	98	42	26
34	TORIM73	MEXICO	3816	72	88	168	78	44	18
20	CHOLI"S"	CHILE/MEX	3772	69	86	172	97	35	18
23	COCORAQUE75	MEXICO ***	3727	71	83	171	90	45	15
1	MORK"S"	MEXICO	3711	68	87	168	107	36	33
19	CHIROCA"S"	MEXICO	3655	67	85	175	103	37	29
12	CUCKOO"S"	MEXICO	3566	69	81	172	98	36	18
18	NACOZARI76	MEXICO	3500	68	84	172	93	39	11
32	DOUGGA	TUNISIA	3466	64	89	179	102	35	22
47	M.J.INTA	ARGENTINA	3422	66	91	175	108	41	22
39	SONALIKA	INDIA	3411	70	81	171	98	57	15
31	GLENLEA	CANADA	3405	64	89	177	128	40	26
21	ANTIZANA	ECUADOR	3383	71	81	168	97	47	22
35	TANORI71	MEXICO	3377	72	84	164	85	44	15
2	BUTTE-ND519	U.S.A.	3344	70	81	172	108	44	18
5	OLLANTA	PERU	3294	69	79	168	108	45	18
10	MONCHO"S"	MEXICO	3255	66	82	173	108	47	18
49	INIA66	MEXICO	3227	73	81	165	92	46	22
50	LOCAL CHECK		3183	71	88	174	120	40	11
48	YECORATO "S"	INIA/MEX	3127	70	87	169	83	38	26
40	E.DAKARU	URUGUAY	3100	66	81	175	115	36	44
27	CONDOR"S"	AUSTRALIA	3000	62	93	180	87	30	26
9	MAGPIE"S"	MEXICO	2866	69	79	160	92	36	29
6	YSOE-KAL(3)	MEXICO	2722	68	88	176	10[illegible]	42	33
37	KAL-BB	MEXICO	2616	65	88	170	70	39	22
13	SIETE CERROS	MEXICO	2561	69	88	174	98	42	37
24	MEXICALI75 (DURUM)	MEXICO	2505	66	81	185	92	53	18
33	GIZA155	EGYPT	2383	68	81	175	108	42	22
14	S331-NOR67	INDIA/LEB	2283	62	88	178	105	30	15
		GRAND MEAN	3819.3	68.0	85.4	173.1	100.3	41.1	20.7
		STANDARD ERROR OF GRAND MEAN	86.6	0.2			0.4	0.3	
		COEFFICIENT OF VARIATION AS PC	27.5	3.4			5.2	10.3	
		LSD VARIETY MEANS 5 PC	1700.8	3.8			8.5	6.8	

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
TEST WT	0.16					
FLOW DAYS	0.13	-0.57				
MAT DAYS	0.15	-0.63	0.45			
PLNT HT	0.19	-0.24	0.05	0.40		
1000 G.W.	0.05	0.46	-0.47	-0.04	0.02	
SEPT TRIT	-0.24	-0.07	0.04	-0.03	-0.02	-0.26

LA MOLINA
C.LLOSA
LATITUDE 012 05'S DATE PLANTED 9/ 2/77 NITROGEN --
LONGITUDE 076 57'W DATE HARVESTED 1/11/78 PHOSPHORUS --
ELEVATION 0251 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM --

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NEGLIGIBLE INSECT DAMAGE.
LOCAL CHECK: PARTICIPACION

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
50	LOCAL CHECK		3927	83	72	118	TMS	95	38
2	BUTTE-ND519	U.S.A.	3641	83	52	104	0	100	42
38	MN7083	U.S.A.	3620	82	55	102	0	85	39
4	PAVON 76	MEXICO	3616	84	59	102	0	88	44
43	PJ-GB X NAI66	PAKISTAN	3580	83	58	112	20R	75	36
46	BULBUL	PAKISTAN	3452	84	54	104	0	93	43
45	IAS54	BRAZIL	3431	81	60	114	0	100	40
34	TORIM73	MEXICO	3381	83	53	100	0	50	37
29	FLICKER"S"	MEXICO	3274	81	68	114	0	83	43
42	H-RA(2)P(2)	INIA/MEX	3202	80	65	108	5VR	70	46
20	CHOLI"S"	CHILE/MEX	3130	82	50	100	0	73	38
37	KAL-BB	MEXICO	3123	80	55	102	0	73	32
30	ABU-GHRAIB3	IRAQ	3080	83	53	102	0	83	38
14	S331-NOR67	INDIA/LEB	3061	78	61	104	0	78	41
17	TESOPACO"S"	MEXICO	3006	81	56	102	0	88	39
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3001	83	55	104	0	70	44
36	UP301 X SON64-PI62	INDIA/LEB	2972	82	47	100	0	68	43
33	GIZA155	EGYPT	2923	82	50	112	10S	113	40
24	MEXICALI75 (DURUM)	MEXICO	2897	78	52	102	0	70	52
10	MONCHO"S"	MEXICO	2884	82	59	100	0	85	49
21	ANTIZANA	ECUADOR	2818	82	53	102	20MS	83	47
23	COCORAQUE75	MEXICO	2797	83	50	100	0	73	41
25	ANZA	U.S.A.	2793	82	60	102	0	75	38
26	NACOZARI"S"	MEXICO	2793	82	53	100	5VR	60	43
3	NACOZARI"S"	MEXICO	2790	82	53	102	0	70	40
11	PAVON"S"	MEXICO	2776	82	59	100	5VR	80	44
44	EMU"S"	MEXICO	2773	82	59	102	0	78	45
1	HORK"S"	MEXICO	2741	83	62	112	0	80	36
27	CONDOR"S"	AUSTRALIA	2722	82	59	110	0	75	38
15	MAPACHE (TRITICALE)	MEXICO	2702	67	53	102	0	90	41
16	SOLTANE	TUNISIA	2643	83	61	112	0	93	48
19	CHIROCA"S"	MEXICO	2622	83	50	104	0	90	42
7	PAVON"S"	MEXICO ***	2616	83	72	112	0	88	41
22	JUPATECO73	MEXICO	2600	83	56	104	0	80	40
35	TANORI71	MEXICO	2577	82	50	100	0	75	39
47	M.J.INTA	ARGENTINA	2558	82	71	120	0	93	40
6	Y50E-KAL(3)	MEXICO	2543	84	59	104	0	88	45
32	DOUGGA	TUNISIA	2497	83	59	100	0	80	38
39	SONALIKA	INDIA	2466	82	49	104	0	83	56
40	YECORATO "S"	INIA/MEX	2450	81	53	100	0	50	36
18	NACOZARI76	MEXICO	2427	83	52	100	0	73	41
49	INIA66	MEXICO	2420	84	53	100	0	80	43
40	E.DAKARU	URUGUAY	2384	81	61	114	0	103	40
9	MAGPIE"S"	MEXICO	2382	82	60	102	0	78	39
31	GLENLEA	CANADA	2376	79	67	112	0	110	40
13	SIETE CERROS	MEXICO	2312	83	50	100	0	78	37
12	CUCKOO"S"	MEXICO	2247	84	53	104	0	75	41
28	NAOFEN	CHILE	1965	80	66	112	0	80	41
5	OLLANTA	PERU	1939	81	40	102	0	93	38
		GRAND MEAN	2835.7	81.7	57.4	105.0	1.9	83.1	41.0
		STANDARD ERROR OF GRAND MEAN	53.5					0.5	
		COEFFICIENT OF VARIATION AS PC	22.9					6.1	
		LSD VARIETY MEANS 5 PC	1051.6					10.3	

CORRELATIONS

YIELD	KG/HA						
TEST	WT	0.09					
FLOW	DAYS	0.07	0.02				
MAT	DAYS	0.06	0.05	0.00			
LEAF	RUST	-0.11	0.09	0.01	0.09		
PLNT	HT	0.00	-0.09	0.39	0.54	0.04	
1000	G.W.	-0.11	-0.06	0.05	0.12	-0.07	0.30

TABLE 72.

SUMMARY FOR REGION I (NORTH AFRICA), 14TH ISWYN - 1977-78.
(Locations: Guelma, ALGERIA; Tunis, TUNISIA; Alentejo, PORTUGAL; Cadiz, Madrid and Zaragoza, SPAIN.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	LEAF RUST	PLNT HT	LODG %	1000 G.W.	POWD %	SEPT TRIT	SEPT NODO
15	MAPACHE (TRITICALE)	MEXICO	5504	70	112	167	20	0	0	101	20	45	40	17	15
18	NACOZARI76	MEXICO	5306	80	118	167	3	1	0	89	30	40	100	67	11
4	PAVON 76	MEXICO	5160	82	118	173	9	23	0	93	20	39	100	56	26
3	NACOZARI*S*	MEXICO	5072	79	116	167	0	60	0	92	10	37	78	73	15
7	PAVON*S*	MEXICO	5038	81	123	173	18	40	0	98	10	41	67	50	15
26	NACOZARI*S*	MEXICO	4948	78	117	169	0	0	1	93	20	41	85	56	11
12	CUCKOO*S*	MEXICO	4894	77	110	169	13	60	60	91	10	34	85	62	11
25	ANZA	U.S.A.	4861	79	123	170	1	0	60	92	10	36	82	45	11
19	CHIROCA*S*	MEXICO	4854	81	116	172	6	0	0	95	20	36	60	73	11
11	PAVON*S*	MEXICO	4794	83	119	172	11	40	0	94	10	41	100	56	26
20	CHOLI*S*	CHILE/MEX	4790	78	116	167	3	0	30	93	20	39	82	73	26
32	DOUGGA	TUNISIA	4765	82	121	174	22	32	0	95	10	38	85	50	11
24	MEXICALI75 (DURUM)	MEXICO	4728	78	111	167	2	10	0	92	30	56	71	33	15
10	MONCHO*S*	MEXICO	4685	80	119	170	0	20	0	98	20	48	82	56	15
1	HORK*S*	MEXICO	4666	77	116	170	29	00	0	96	30	36	48	67	11
27	CONDOR*S*	AUSTRALIA	4666	80	123	170	2	0	0	82	10	39	74	39	15
47	H-RA(2)P(2)	INIA/MEX	4624	76	118	169	3	60	0	93	20	47	100	56	11
29	FLICKER*S*	MEXICO	4591	77	120	171	12	17	0	88	0	40	78	62	11
36	UP301 X SON64-PI62	INDIA/LEB	4493	80	109	166	3	0	0	91	0	44	78	67	11
17	TESOPACO*S*	MEXICO	4484	79	112	167	0	0	0	99	30	44	82	62	11
38	ABU-GHRAIB3	IRAQ	4454	79	112	169	16	40	50	91	0	35	100	50	11
14	S331-NOR67	INDIA/LEB	4419	76	125	171	17	40	0	102	10	42	89	78	22
9	MAGPIE*S*	MEXICO	4405	77	108	165	19	25	0	82	20	42	89	56	11
37	KAL-BB	MEXICO	4393	78	120	167	9	30	0	78	0	37	78	73	29
44	EMU*S*	MEXICO	4357	81	118	168	0	0	0	92	10	47	56	62	11
6	Y50E-KAL(3)	MEXICO	4339	82	123	174	17	32	50	103	20	46	48	56	15
48	YECORATO *S*	INIA/MEX	4337	79	118	168	0	60	-	77	0	41	82	67	22
21	ANTIZANA	ECUADOR	4326	81	109	169	0	20	0	88	10	45	89	45	11
39	SONALIKA	INDIA	4205	77	105	167	7	10	20	92	40	50	82	78	11
28	NACFEN	CHILE	4202	79	122	174	2	0	0	101	10	40	85	33	11
46	BULBUL	PAKISTAN	4123	82	116	169	36	32	-	103	20	38	82	56	22
22	JUPATECO73	MEXICO	4116	77	109	167	30	48	-	91	20	36	74	61	10
50	LOCAL CHECK		4052	69	119	169	27	100	-	90	10	35	52	67	26
2	BUTTE-ND519	U.S.A.	4041	80	117	171	11	29	0	108	50	40	29	45	11
47	M.J.INTA	ARGENTINA	3984	76	116	169	40	50	-	99	10	43	89	62	15
30	MN7083	U.S.A.	3983	77	117	168	22	36	0	95	20	40	67	50	15
16	SOLTANE	TUNISIA	3973	74	112	166	29	39	0	95	0	42	85	67	11
43	PJ-GB X NAI66	PAKISTAN	3968	77	117	171	37	47	0	88	10	42	60	56	15
34	TORIM73	MEXICO	3943	79	110	166	3	0	0	71	0	43	85	67	10
35	TANORI71	MEXICO	3870	78	108	167	14	0	0	86	10	43	93	78	15
45	IAS54	BRAZIL	3781	79	118	171	5	20	0	98	20	42	82	62	11
5	OLLANTA	PERU	3773	77	109	168	13	0	40	107	30	41	78	67	11
41	CNO*S* X NAD63-CHR*S*/SON-R1	ARGENTINA	3713	80	116	168	20	50	0	89	10	47	82	50	15
13	SIETE CERROS	MEXICO	3645	75	119	171	43	78	10	95	0	35	78	78	26
33	GIZA155	EGYPT	3579	78	118	171	2	0	0	106	20	43	82	56	11
40	E.DAKARU	URUGUAY	3491	76	120	174	7	37	0	110	20	38	100	62	15
23	COCORAQUE75	MEXICO	3445	77	106	166	11	30	-	77	10	42	78	73	11
31	GLENLEA	CANADA	3411	81	122	173	0	0	0	116	40	46	48	56	11
49	INIA66	MEXICO	3384	79	106	164	4	0	1	90	30	43	89	67	18
	SUMMARY MEANS OVER VARIETIES		4339.4	78.3	115.6	169.1	12.5	26.5	7.5	93.3	15.9	41.4	77.9	59.1	15.1
	NUMBER OF LOCATIONS FOR EACH VARIABLE		6	1	4	4	3	2	1	6	1	3	1	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		19	3	9	11	8	5	1	13	1	6	4	2	3

TABLE 73.

SUMMARY FOR REGION II (MIDDLE EAST), 14th ISWYN - 1977-78.
(Locations: Beni-Suef, Kafr El Sheikh, EGYPT; Tripoli, LIBYA; Kassala, SUDAN; Larnaca, CYPRUS; Thessaloniki, GREECE; Nve-Yaar, R.D. Sde-Gat, ISRAEL; Jordan Valley, JORDAN; Beka'a Valley, LEBANON; Aleppo, Deira Mouhaphada, SYRIA; Sakarya, TURKEY; Taiz, S. Governorate, YEMEN.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	SHOT RT.L	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	1000 G.W.	POWD %	SEPT NODO
12	CUCKOO"S"	MEXICO	3916	80	89	142	30	16	17	89	5	3	34	76	15
3	NACOZARI"S"	MEXICO	3894	81	91	142	-	16	11	83	3	0	38	69	22
11	PAVON"S"	MEXICO	3854	82	96	143	16	25	25	86	6	10	38	69	7
-30	ABU-GHRAIB3	IRAQ	3853	76	89	141	-	14	11	85	2	10	33	88	11
26	NACOZARI"S"	MEXICO	3838	81	91	142	-	17	17	87	2	12	38	63	11
18	NACOZARI76	MEXICO	3801	80	92	142	-	34	58	84	3	2	39	50	10
15	MAPACHE (TRITICALE)	MEXICO	3795	69	88	141	-	13	0	99	1	0	40	0	29
4	PAVON 76	MEXICO	3697	82	96	144	21	0	15	84	0	0	37	63	11
22	JUPATECO73	MEXICO	3677	82	90	145	-	26	12	86	0	5	39	48	18
25	ANZA	U.S.A.	3668	82	97	147	-	22	28	82	22	0	36	65	4
10	MONCHO"S"	MEXICO	3590	81	98	145	-	6	10	88	1	3	40	50	11
27	CONDOR"S"	AUSTRALIA	3589	81	97	147	-	7	11	88	19	2	36	63	4
1	HORK"S"	MEXICO	3587	80	94	143	32	3	10	88	14	3	32	69	11
29	FLICKER"S"	MEXICO	3578	78	99	146	8	37	48	85	25	3	37	73	7
19	CHIROCA"S"	MEXICO	3578	81	92	143	8	14	9	90	11	0	36	53	11
44	ERU"S"	MEXICO	3564	80	93	142	2	3	0	87	46	0	40	69	11
46	BULBUL	PAKISTAN	3562	82	92	142	-	13	31	90	0	15	38	69	4
35	TANORI71	MEXICO	3528	82	85	139	-	5	12	85	4	10	41	73	15
13	SIETE CERROS	MEXICO	3513	80	95	145	-	35	16	80	21	0	34	57	7
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3488	82	90	143	47	19	20	85	3	10	40	82	4
43	PJ-Gb X NAI66	PAKISTAN	3484	75	92	143	70	31	23	83	2	10	38	67	4
32	DOUGGA	TUNISIA	3479	81	97	144	2	7	19	83	3	17	36	45	4
9	MAYOTE"S"	MEXICO	3458	81	89	139	8	19	34	81	0	22	40	50	11
23	COCORAQUE75	MEXICO	3457	81	86	138	-	37	55	78	1	13	41	59	11
20	CHOCI"S"	CHILE/MEX	3448	79	94	143	-	28	10	82	16	5	34	67	11
37	[illegible]	MEXICO	3436	79	93	143	50	31	20	66	0	7	36	59	22
34	[illegible]	MEXICO	3425	81	87	139	-	28	54	69	0	0	41	63	26
24	MEXICALI75 (DURUM)	MEXICO	3401	79	89	141	25	40	36	82	24	2	40	65	12
46	YECORATO "S"	INIA/MEX	3392	80	92	143	14	5	20	75	23	0	38	78	11
47	M.J.INIA	ARGENTINA	3388	81	95	146	27	10	16	91	29	10	42	74	4
17	TEGOPACO"S"	MEXICO	3386	79	91	142	16	22	24	98	44	23	39	70	10
42	[illegible]	INIA/MEX	3384	78	97	145	-	35	30	87	37	0	42	85	0
50	LOCAL CHECK		3366	80	93	145	5	31	32	86	4	0	40	86	7
39	SONALIKA	INDIA	3365	81	84	139	16	14	22	87	32	15	50	63	11
36	UPO01 X CON64-PI62	INDIA/LEB	3364	81	86	139	23	10	14	81	4	13	40	80	11
7	PAVON"S"	MEXICO	3333	81	100	146	0	13	36	88	19	0	34	62	[illegible]
49	[illegible]	MEXICO	3327	81	85	138	0	26	24	85	9	7	43	69	10
20	[illegible]	CHILE	3311	78	101	149	-	12	22	89	1	0	36	54	12
16	SOLTANE	TUNISIA	3307	82	93	142	16	9	11	90	19	22	43	67	12
14	[illegible]-HOR67	INDIA/LEB	3299	74	100	147	2	11	15	90	12	17	36	59	10
21	ANDIZANA	ECUADOR	3274	81	89	145	-	21	20	83	2	10	46	56	10
38	[illegible]	U.S.A.	3244	81	92	144	60	15	16	87	29	7	39	61	11
6	[illegible](3)	MEXICO	3178	80	96	145	-	29	22	90	23	20	38	54	[illegible]
33	GIZA155	EGYPT	3059	80	94	146	-	24	20	97	52	0	40	71	1[illegible]
45	IAS54	BRAZIL	3014	79	94	144	-	7	27	95	49	10	37	77	1[illegible]
2	BUTTE-HO519	U.S.A.	2971	81	93	144	13	3	12	105	61	0	35	41	[illegible]
40	[illegible]	URUGUAY	2950	80	98	146	33	11	22	103	43	0	36	65	[illegible]
5	[illegible]	PERU	2767	79	94	141	-	27	7	101	68	60	38	42	1[illegible]
31	GLENLEA	CANADA	2715	78	100	147	24	0	19	100	43	13	42	47	[illegible]
	SUMMARY MEANS OVER VARIETIES		3439.4	79.7	92.6	143.2	21.6	18.1	21.2	87.2	17.4	9.0	38.6	62.5	11.[illegible]
	NUMBER OF LOCATIONS FOR EACH VARIABLE		15	8	13	11	1	6	2	15	4	1	11	2	
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		43	16	29	23	3	12	4	33	8	3	23	6	

TABLE 74.

SUMMARY FOR REGION III (INDIAN SUBCONTINENT), 14TH ISWYN - 1977-78.
(Locations: BANGLADESH; Delhi, Punjab and Uttar Pradesh, INDIA; Bara, Narayani, NEPAL; Punjab and Sind, PAKISTAN.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STHP RT.L	LEAF RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.
18	NACOZARI76	MEXICO	4140	87	132	0	36	0	92	17	39
11	PAVON*S*	MEXICO	4076	90	133	1	0	0	98	51	40
35	TANORI71	MEXICO	4070	78	131	0	1	0	96	37	41
22	JUPATECO73	MEXICO	3985	83	131	6	7	0	100	13	43
26	NACOZARI*S*	MEXICO	3957	85	131	0	50	0	95	14	39
46	BULBUL	PAKISTAN	3902	85	132	0	48	0	106	62	39
9	MAGPIE*S*	MEXICO	3868	85	129	0	0	0	90	19	42
50	LOCAL CHECK		3850	86	131	3	19	-	98	48	46
4	PAVON 76	MEXICO	3846	89	132	0	0	0	97	32	39
19	CHIROCA*S*	MEXICO	3720	85	133	3	0	0	101	33	43
49	INIA66	MEXICO	3711	78	129	4	2	0	101	14	41
37	KAL-BB	MEXICO	3655	87	133	0	0	0	74	4	36
16	SOLTANE	TUNISIA	3649	87	132	4	1	0	105	58	45
3	NACOZARI*S*	MEXICO	3645	84	129	0	45	24	90	29	39
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	3642	86	134	7	7	0	94	53	41
7	PAVON*S*	MEXICO	3635	95	136	0	0	0	100	59	35
17	TESOPACO*S*	MEXICO	3605	85	129	0	0	0	110	61	43
36	UP301 X SON64-PI62	INDIA/LEB	3591	78	127	1	0	0	94	42	43
23	COCORAQUE75	MEXICO	3581	82	129	0	1	0	89	9	41
1	HORK*S*	MEXICO	3531	90	132	0	0	0	99	51	35
48	YECORATO *S*	INIA/MEX	3530	87	132	0	0	0	80	55	41
42	H-RA(2)F(2)	INIA/MEX	3511	94	134	0	11	0	102	55	38
27	CONDOR*S*	AUSTRALIA	3479	91	140	0	1	0	87	5	40
39	SONALIKA	INDIA	3436	77	129	0	1	0	101	41	53
10	MONCHO*S*	MEXICO	3429	93	136	0	0	0	102	12	39
38	MN7083	U.S.A.	3408	87	134	2	0	0	101	56	40
15	MAPACHE (TRITICALE)	MEXICO	3373	82	133	0	9	3	114	15	40
29	FLICKER*S*	MEXICO	3370	95	137	46	15	2	100	65	41
45	IAS54	BRAZIL	3257	90	133	0	40	0	100	59	40
32	DOUGGA	TUNISIA	3239	92	136	4	10	0	93	41	38
30	ABU-GHRAIB3	IRAQ	3236	82	132	0	51	0	93	37	35
12	CUCKOO*S*	MEXICO	3207	84	132	1	53	0	94	46	34
25	ANZA	U.S.A.	3164	90	136	0	35	70	92	19	36
47	M.J.INTA	ARGENTINA	3135	93	137	11	4	0	104	57	43
24	MEXICALI75 (DURUM)	MEXICO	3129	84	133	0	33	0	91	30	59
43	PJ-GB X NAI66	PAKISTAN	3117	87	132	7	62	3	95	49	37
21	ANTIZANA	ECUADOR	2940	82	131	20	40	0	96	21	47
20	CHOLI*S*	CHILE/MEX	2841	87	133	3	18	0	93	31	35
40	E.DAKARU	URUGUAY	2833	95	139	16	9	0	122	78	36
2	BUTTE-ND519	U.S.A.	2772	87	134	8	0	24	123	74	38
6	Y502-KAL(3)	MEXICO	2754	90	133	0	62	3	101	56	40
34	TONIM73	MEXICO	2754	79	129	0	0	3	77	11	40
31	GLENLEA	CANADA	2724	95	137	0	4	3	127	78	46
33	GIZA155	EGYPT	2649	89	135	64	20	3	122	70	41
5	OLLANTA	PERU	2617	79	127	0	58	23	116	81	34
44	EMU*S*	MEXICO	2584	89	134	0	0	0	97	55	36
14	S331-NOR67	INDIA/LEB	2424	93	135	0	0	0	101	38	36
28	NAOFEN	CHILE	2391	98	139	0	7	8	100	15	39
13	SIETE CERROS	MEXICO	2256	89	133	7	04	0	96	41	31
	SUMMARY MEANS OVER VARIETIES		3330.4	86.9	132.8	4.8	17.3	3.3	99.1	40.7	40.1
	NUMBER OF LOCATIONS FOR EACH VARIABLE		5	6	6	3	6	1	6	3	3
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		15	13	13	5	12	1	13	7	5

TABLE 75.

SUMMARY FOR REGION IV (FAR EAST), 14TH ISWYN - 1977-78.
(Locations: Hokkaido, JAPAN; Chunnam, SOUTH KOREA.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.	EARS /M2
15	MAPACHE (TRITICALE)	MEXICO	3734	65	123	163	1	101	36	518
29	FLICKER"S"	MEXICO	3414	69	126	160	0	77	32	602
46	BULBUL	PAKISTAN	3346	78	128	161	40	89	33	296
36	UP301 X SON64-PI62	INDIA/LEB	3306	75	120	158	0	77	31	662
12	CUCKOO"S"	MEXICO	3296	77	124	160	1	84	28	735
18	NACOZARI76	MEXICO	3235	75	124	159	30	80	34	564
3	NACOZARI"S"	MEXICO	3229	74	124	159	17	80	32	544
7	PAVON"S"	MEXICO	3228	75	129	162	0	84	30	642
45	IAS54	BRAZIL	3215	76	127	161	4	94	34	399
22	JUPATECO73	MEXICO	3204	78	124	159	0	82	33	675
2	BUTTE-ND519	U.S.A.	3189	79	126	163	0	107	37	875
47	M.J.INTA	ARGENTINA	3177	78	126	160	5	89	38	369
38	MN7083	U.S.A.	3167	77	125	161	0	82	35	611
9	MAGPIE"S"	MEXICO	3149	73	124	159	0	75	33	660
17	TESOPACO"S"	MEXICO	3120	75	125	159	0	94	34	591
4	PAVON 76	MEXICO	3086	77	128	161	3	84	31	749
1	HORK"S"	MEXICO	3069	74	120	161	0	83	26	658
6	Y50E-KAL(3)	MEXICO	3001	77	129	161	53	87	34	504
50	LOCAL CHECK		2995	77	127	160	80	93	32	362
16	SOLTANE	TUNISIA	2974	76	125	159	0	88	38	493
5	OLLANTA	PERU	2966	76	121	159	30	103	33	602
19	CHIROCA"S"	MEXICO	2966	78	127	160	0	84	33	380
49	INIA66	MEXICO	2944	78	123	160	7	78	35	309
30	ABU-GHRAIB3	IRAQ	2942	77	124	160	1	77	31	549
42	h-RA(2)F(2)	INIA/MEX	2898	74	126	161	0	83	39	427
35	TANORI71	MEXICO	2892	77	122	160	4	78	35	491
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2865	77	123	160	0	76	36	540
28	NAOFEN	CHILE	2841	73	130	164	0	79	34	555
27	CONDOR"S"	AUSTRALIA	2780	78	127	161	23	70	33	565
10	MONCHO"S"	MEXICO	2751	77	127	162	0	80	36	753
23	COCORAQUE75	MEXICO	2750	76	123	158	0	71	33	620
25	ANZA	U.S.A.	2742	77	127	162	33	72	29	733
21	ANTIZANA	ECUADOR	2716	77	125	160	0	80	38	555
26	NACOZARI"S"	MEXICO	2684	77	124	158	40	76	33	558
14	S331-NOR67	INDIA/LEB	2665	70	129	161	0	89	30	491
31	GLENLEA	CANADA	2646	77	130	164	3	102	43	613
44	YECORATO "S"	INIA/MEX	2623	76	124	160	0	64	34	354
44	EMU"S"	MEXICO	2619	77	126	160	0	79	34	352
24	MEXICALI75 (DURUM)	MEXICO	2611	74	124	161	10	86	39	549
13	SIETE CERROS	MEXICO	2580	75	128	161	47	84	30	502
1.	PAVON"S"	MEXICO	2556	78	127	160	0	78	33	496
48	E.DAKARU	URUGUAY	2486	78	127	161	0	104	35	686
34	TORIM73	MEXICO	2481	75	124	159	0	62	32	556
39	SONALIKA	INDIA	2476	75	122	162	1	82	41	493
43	PJ-GB X NAI66	PAKISTAN	2463	76	127	162	0	80	32	298
37	KAL-BB	MEXICO	2350	72	126	160	0	58	29	509
32	DOUGGA	TUNISIA	2279	77	126	160	0	75	32	540
20	CHOLI"S"	CHILE/MEX	2213	68	126	159	23	76	28	626
33	GIZA155	EGYPT	2065	76	125	163	33	94	35	531
	SUMMARY MEANS OVER VARIETIES		2876.9	75.3	125.3	160.2	10.0	82.5	33.4	545.8
	NUMBER OF LOCATIONS FOR EACH VARIABLE		2	2	2	2	1	2	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		6	4	6	6	3	6	6	3

TABLE 76.

SUMMARY FOR REGION V (EASTERN AND NORTHERN EUROPE), 14TH ISWYN - 1977-78.
(Locations: Tolmanin, BULGARIA; Czechia, CZECHOSLOVAKIA; FINLAND; Martonvasar, HUNGARY; Oslo, NORWAY; Bonin, POLAND; Dfov, ROMANIA; SWEDEN; Vojvodina, YUGOSLAVIA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.	POWD %	SEPT TRIT	SEPT NODO
50	LOCAL CHECK		4401	74	85	135	4	99	95	-	38	22	65	-
19	CHIROCA*S*	MEXICO	4307	78	94	148	0	-	85	2	37	19	18	41
3	NACOZARI*S*	MEXICO	3932	76	90	146	0	20	76	0	37	23	41	71
15	MAPACHE (TRITICALE)	MEXICO	3921	64	90	147	6	-	93	8	42	2	22	33
18	NACOZARI76	MEXICO	3917	75	91	146	0	20	76	0	38	26	59	71
26	NACOZARI*6*	MEXICO	3894	76	91	145	0	8	80	0	38	23	59	63
28	NAOPEN	CHILE	3690	75	95	149	0	60	82	0	38	18	18	63
11	PAVON*S*	MEXICO	3624	78	92	148	0	-	80	0	41	26	52	71
7	PAVON*S*	MEXICO	3623	75	93	146	0	60	81	0	37	27	39	71
4	PAVON 76	MEXICO	3561	77	91	145	0	-	80	0	41	28	40	63
46	BULBUL	PAKISTAN	3552	77	92	145	0	60	87	2	35	28	67	71
12	CUCKOO*S*	MEXICO	3513	76	90	146	37	10	75	3	33	41	82	78
1	HORK*S*	MEXICO	3499	77	92	147	0	-	77	0	34	28	44	63
6	Y50E-RAL(3)	MEXICO	3466	76	94	148	22	-	84	2	38	10	35	78
13	SIETE CERROS	MEXICO	3424	74	93	146	27	-	77	0	35	15	56	71
47	M.J.INTA	ARGENTINA	3409	77	90	145	0	-	82	0	43	18	52	63
29	FLICKER*S*	MEXICO	3407	69	92	145	0	-	73	2	36	47	56	78
27	CONDOR*S*	AUSTRALIA	3378	75	93	148	19	-	71	0	38	26	41	41
25	ANZA	U.S.A.	3344	76	92	146	65	40	70	0	36	28	52	56
31	GLENLEA	CANADA	3266	76	95	149	0	5	105	10	46	12	5	71
10	MONCHO*S*	MEXICO	3263	74	92	145	0	20	79	2	46	25	26	41
22	JUPATECO73	MEXICO	3244	76	89	143	0	-	77	0	38	17	64	56
20	CHOLI*S*	CHILE/MEX	3237	72	89	144	28	-	73	0	37	33	40	78
30	ABU-GHRAIB3	IRAQ	3227	76	90	144	63	10	76	0	33	39	59	71
38	MN7963	U.S.A.	3209	76	90	146	0	-	79	3	42	20	55	63
32	DOUGGA	TUNISIA	3202	76	94	148	0	-	75	0	35	10	22	71
16	SOLTANE	TUNISIA	3167	77	89	143	0	-	80	0	42	22	77	78
21	ANTIZANA	ECUADOR	3163	76	90	145	0	-	78	0	42	14	32	56
14	5331-NOR67	INDIA/LEB	3141	71	95	149	0	-	82	5	35	15	52	78
44	EMU*S*	MEXICO	3137	77	92	148	0	-	77	2	42	17	44	71
17	TESOPACO*S*	MEXICO	3135	76	89	144	0	-	83	2	42	52	71	78
2	BUTTE-ND519	U.S.A.	3121	79	90	148	0	10	93	2	40	16	33	56
45	IAS54	BRAZIL	3116	75	91	147	0	60	89	13	38	30	37	41
9	MAGPIE*S*	MEXICO	3098	75	89	143	24	20	67	2	41	64	42	56
39	SONALIKA	INDIA	3072	75	87	142	0	-	78	0	48	31	39	71
36	UP301 X SON64-PI62	INDIA/LEB	3027	75	87	142	0	-	72	0	41	13	48	56
42	H-RA(2)F(2)	INIA/MEX	3019	71	92	148	0	-	78	0	45	48	18	56
37	KAL-BB	MEXICO	3011	71	92	144	0	-	60	0	33	14	71	85
43	PJ-GB X NAI66	PAKISTAN	2998	75	94	148	0	-	77	0	36	20	44	78
35	TANGRI71	MEXICO	2945	76	87	142	0	-	71	0	40	43	34	71
5	OLLANTA	PERU	2932	75	88	143	27	-	90	2	38	22	51	63
40	E.DAKARU	URUGUAY	2781	76	91	149	0	-	94	3	36	19	74	63
33	GIZA155	EGYPT	2747	73	89	147	0	-	85	3	41	21	27	71
23	COCORAQUE75	MEXICO	2734	74	88	142	0	-	69	2	39		74	63
34	TORIM73	MEXICO	2731	74	88	143	0	-	58	0	37	17	63	78
49	INIA66	MEXICO	2681	77	87	143	0	-	71	0	40	42	64	78
24	MEXICALI75 (DURUM)	MEXICO	2668	70	89	144	0	-	76	0	48	16	52	78
46	YECORATO *S*	INIA/MEX	2635	72	89	144	0	60	62	0	41	20	40	78
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	2433	75	87	142	0	60	71	0	42	33	56	78
	SUMMARY MEANS OVER VARIETIES		3265.3	74.8	90.5	145.2	6.6	36.6	78.5	1.6	39.1	25.2	47.3	66.2
	NUMBER OF LOCATIONS FOR EACH VARIABLE		9	8	7	4	2	1	9	1	6	5	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		25	24	17	10	4	1	23	3	24	13	4	3

TABLE 77.

SUMMARY FOR REGION VI (NORTHERN USA AND CANADA), 14TH ISWYN - 1977-78.

(Locations: Alberta, Manitoba and Ontario, CANADA; North Dakota, U.S.A.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.	POWD %
15	MAPACHE (TRITICALE)	MEXICO	4059	63	96	115	4	0	86	5	39	0
7	PAVON"S"	MEXICO	3768	77	103	114	0	0	76	5	40	63
11	PAVON"S"	MEXICO	3752	78	99	112	4	0	73	3	42	88
21	ANTIZANA	ECUADOR	3706	76	96	112	11	2	70	5	43	13
4	PAVON 76	MEXICO	3669	79	99	111	4	0	75	5	40	50
28	NAOFEN	CHILE	3657	73	101	114	6	0	74	3	35	50
17	TESOPACO"S"	MEXICO	3642	74	96	108	5	0	76	8	40	100
31	GLENLEA	CANADA	3632	74	100	115	0	0	90	7	44	50
46	BULBUL	PAKISTAN	3537	77	99	109	4	60	76	10	38	100
42	H-KA(2)F(2)	INIA/MEX	3436	71	99	109	12	0	71	7	46	88
10	MONCHO"S"	MEXICO	3406	77	100	114	4	0	70	5	42	75
50	LOCAL CHECK		3397	76	99	110	7	0	90	3	33	38
29	FLICKER"S"	MEXICO	3257	72	99	107	20	0	66	3	38	88
5	OLLANTA	PERU	3224	75	93	100	33	0	81	13	37	38
47	M.J.INTA	ARGENTINA	3222	76	99	111	1	0	77	5	42	25
12	CUCKOO"S"	MEXICO	3215	74	95	110	24	4	70	5	35	100
19	CHIROCA"S"	MEXICO	3214	76	100	116	0	0	75	7	40	13
36	UP301 X SON64-PI62	INDIA/LEB	3201	77	87	102	11	0	66	3	41	50
2	BUTTE-ND519	U.S.A.	3196	76	96	110	4	0	85	8	38	63
45	IAS54	BRAZIL	3195	74	99	114	13	10	77	5	38	100
38	MN7083	U.S.A.	3179	74	97	109	0	0	72	5	37	38
3	NACOZARI"S"	MEXICO	3142	72	97	107	1	0	68	5	38	50
24	MEXICALI75 (DURUM)	MEXICO	3131	72	96	109	6	36	71	8	45	25
30	ABU-GHRAIB3	IRAQ	3110	73	96	111	15	4	70	5	34	75
9	MAGPIE"S"	MEXICO	3086	73	98	108	10	0	62	10	38	100
53	E.DAKARU	URUGUAY	3060	76	98	113	19	0	86	5	35	25
44	EMU"S"	MEXICO	3058	76	98	109	3	0	67	8	40	13
22	JUPATECO73	MEXICO	3024	75	97	108	33	0	70	5	39	88
16	SOLTANE	TUNISIA	3005	74	98	107	9	0	74	8	41	25
14	S331-NOR67	INDIA/LEB	2991	71	101	111	9	0	74	5	35	25
27	CONDOR"S"	AUSTRALIA	2982	74	100	114	29	0	64	3	36	38
25	ANZA	U.S.A.	2956	73	100	112	45	8	66	7	36	63
18	NACOZARI76	MEXICO	2932	71	97	108	8	0	70	3	36	30
6	Y50E-KAL(3)	MEXICO	2929	72	100	110	21	12	75	3	37	38
23	COCORAQUE75	MEXICO	2887	75	96	107	4	0	64	5	36	88
39	SONALIKA	INDIA	2861	72	96	111	16	0	72	7	47	75
26	NACOZARI"S"	MEXICO	2843	72	97	106	18	4	69	3	36	13
35	TANORI71	MEXICO	2839	74	93	105	34	0	67	7	37	88
48	YECORATO "S"	INIA/MEX	2808	74	97	107	5	3	53	8	38	63
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	2791	75	93	107	11	0	64	10	39	88
13	SIETE CERROS	MEXICO	2734	71	99	111	55	3	71	3	36	38
49	INIA66	MEXICO	2699	77	95	105	24	0	65	5	40	100
32	DOUGGA	TUNISIA	2697	75	100	115	2	0	66	5	30	13
1	HORK"S"	MEXICO	2695	72	99	109	17	18	70	7	36	100
43	PJ-GB X NAI66	PAKISTAN	2629	71	99	111	17	6	69	5	36	50
33	GIZA155	EGYPT	2606	71	96	112	35	2	80	7	39	63
37	KAL-BB	MEXICO	2473	69	98	106	6	2[illegible]	52	2	36	75
20	CHOLI"S"	CHILE/MEX	2458	69	97	105	15	8	64	5	36	88
34	TORIM73	MEXICO	2436	73	96	103	7	0	52	3	36	80
	SUMMARY MEANS OVER VARIETIES		31[illegible]	[illegible].6	97.5	109.4	13.4	4.0	71.1	5.7	38.4	58.4
	NUMBER OF LOCATIONS FOR EACH VARIABLE			4	3	2	3	1	4	1	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		12	6	9	6	3	1	9	3	1	1

TABLE 78.

SUMMARY FOR REGION VII (NORTHERN MEXICO AND SOUTHERN USA), 14TH ISWYN - 1977-78.
(Locations: Guanajuato, Nuevo León (Monterrey), Nuevo León (Navidad), and Sonora, MEXICO; Arizona and California, U.S.A.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	PLNT HT	LODG %	SHTR %	1000 G.W.	SEPT TRIT
4	PAVON 76	MEXICO	6029	81	100	147	9	6	88	7	1	31	4
26	NACOZARI*S*	MEXICO	6018	80	97	145	3	27	83	27	10	34	11
18	NACOZARI76	MEXICO	6008	80	99	149	5	18	84	25	3	39	7
11	PAVON*S*	MEXICO	5894	80	100	150	6	2	87	2	7	35	15
10	MONCHO*S*	MEXICO	5866	81	102	150	4	3	89	12	2	42	4
12	CUCKOO*S*	MEXICO	5825	78	94	145	33	23	89	16	2	45	4
15	MAPACHE (TRITICALE)	MEXICO	5796	66	93	149	4	8	101	20	0	44	0
30	ABU-GHRAIB3	IRAQ	5767	80	94	148	25	17	86	22	0	34	4
50	LOCAL CHECK		5748	70	99	145	0	5	98	46	1	43	96
22	JUI ATECO73	MEXICO	5701	81	94	146	19	44	89	29	0	45	7
3	NACOZARI*S*	MEXICO	5678	79	97	148	5	26	84	2	0	34	22
24	MEXICALI75 (DURUM)	MEXICO	5634	78	91	145	4	4	84	61	0	54	4
29	FLICKER*S*	MEXICO	5607	77	105	149	11	8	89	21	2	40	26
25	ANZA	U.S.A.	5532	80	105	151	9	55	80	15	0	34	11
17	TESOPACO*S*	MEXICO	5505	79	97	147	6	14	94	63	0	42	0
19	CHIROCA*S*	MEXICO	5478	79	98	147	2	3	95	11	7	33	26
42	H-RA(2)F(2)	INIA/MEX	5451	77	103	150	5	13	91	24	5	39	11
27	CONDOR*S*	AUSTRALIA	5368	80	102	151	12	25	82	19	0	32	22
9	MAGPIE*S*	MEXICO	5364	78	93	143	5	19	84	30	7	39	15
46	BULBUL	PAKISTAN	5326	80	98	149	21	13	93	27	4	34	15
41	CNO*S* X NAD63-CHR*S*/SON-K1	ARGENTINA	5323	79	96	147	14	8	85	9	2	39	0
7	PAVON*S*	MEXICO	5308	78	105	150	8	15	92	33	7	37	0
43	PJ-GB X NAI66	PAKISTAN	5276	77	100	149	26	19	82	48	7	36	7
35	TANORI71	MEXICO	5226	79	90	142	25	34	87	4	0	41	26
23	COCORAQUE75	MEXICO	5212	81	92	143	5	0	76	14	0	47	37
48	YECORATO *S*	INIA/MEX	5211	76	98	149	2	2	72	18	1	39	56
1	HORK*S*	MEXICO	5169	81	100	149	11	7	89	23	4	34	15
21	ANTIZANA	ECUADOR	5143	79	92	147	5	14	83	29	7	51	37
6	Y50E-KAL(3)	MEXICO	5111	78	103	149	5	24	92	30	13	37	7
32	DOUGGA	TUNISIA	5097	78	105	151	6	7	84	2	2	33	7
36	UP301 X SON64-PI62	INDIA/LEB	5079	80	93	145	19	32	87	28	5	37	4
16	SOLTANE	TUNISIA	5076	79	96	147	19	38	89	19	0	40	7
13	SIETE CERROS	MEXICO	5039	78	102	147	35	46	89	24	13	31	15
34	TORIM73	MEXICO	5011	80	93	145	15	15	69	1	2	36	15
38	MN7083	U.S.A.	5010	77	96	146	19	9	90	26	10	39	0
44	EMU*S*	MEXICO	4952	79	99	147	11	17	88	46	1	33	7
20	CHOLI*S*	CHILE/MEX	4893	76	99	148	5	26	85	40	1	34	22
47	M.J.INTA	ARGENTINA	4872	80	100	147	4	20	92	20	6	40	15
37	KAL-BB	MEXICO	4817	72	99	149	19	22	69	0	0	26	26
28	NAOFLN	CHILE	4803	73	107	151	1	9	90	2	0	35	0
49	INIA66	MEXICO	4730	82	90	142	18	50	80	18	6	43	11
14	S331-NOR67	INDIA/LEB	4660	72	107	150	10	2	94	19	0	32	4
45	IAS54	BRAZIL	4634	76	97	149	17	27	96	36	10	36	0
39	SONALIKA	INDIA	4597	77	88	146	10	46	89	23	2	49	67
33	GIZA155	EGYPT	4093	75	98	149	8	22	166	21	0	39	15
40	E.DAKARU	URUGUAY	4070	77	103	151	14	3	105	23	3	32	0
2	BUTTE-ND519	U.S.A.	3992	80	98	148	3	1	98	39	0	36	18
5	OLLANTA	PERU	3752	76	90	141	7	41	98	73	25	33	22
31	GLENLEA	CANADA	3502	71	104	149	15	[illegible]	108	64	2	31	0
	SUMMARY MEANS OVER VARIETIES		5170.1	77.9	98.0	147.4	10.8	18.1	88.5	24.5	4.2	37.7	15.2
	NUMBER OF LOCATIONS FOR EACH VARIABLE		6	3	5	4	2	3	6	2	1	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		16	7	9	6	4	6	14	6	3	1	3

TABLE 79.

SUMMARY FOR REGION VIII (HIGHLANDS), 14TH ISWYN - 1977-78.

(Locations: Rift Valley, KENYA; TANZANIA; México (Atizapán), México (El Batán), EDO. DE MEXICO; Quezaltenango, GUATEMALA; Cochabamba and Santa Cruz, BOLIVIA; Cundinamarca, COLOMBIA.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	LEAF RUST	STEM RUST	PLNT HT	SHTR %	1000 G.W.	POWD %	SEPT TRIT
15	MAPACHE (TRITICALE)	MEXICO	4979	57	66	131	2	0	1	0	105	0	43	0	14
26	NACOZARI"S"	MEXICO	4357	67	65	127	1	5	11	11	83	10	33	37	19
4	PAVON 76	MEXICO	4239	69	67	128	10	18	1	2	91	5	37	0	23
3	NACOZARI"S"	MEXICO	4115	66	64	126	2	5	10	12	82	10	34	33	25
10	MONCHO"S"	MEXICO	4069	68	70	131	5	15	1	7	96	5	41	10	20
30	ABU-GHRAIB3	IRAQ	4039	68	65	130	30	50	15	0	86	0	33	15	29
11	PAVON"S"	MEXICO	4018	69	68	129	7	5	0	1	94	5	37	0	19
19	CHIROCA"S"	MEXICO	3956	68	67	132	12	10	1	5	94	0	34	15	37
18	NACOZARI76	MEXICO	3956	64	65	127	9	13	7	6	83	5	33	15	22
12	CUCKOO"S"	MEXICO	3927	69	63	129	20	50	14	13	88	0	33	15	23
41	CNO"S" X NAD63-CHR"S"/SON-K1	ARGENTINA	3835	70	63	129	21	50	49	16	84	5	39	7	50
21	ANTIZANA	ECUADOR	3829	70	64	127	3	10	20	14	87	5	42	15	42
24	MEXICALI75 (DURUM)	MEXICO	3792	64	63	130	4	5	0	2	82	0	45	0	29
23	COCORAQUE75	MEXICO	3733	70	67	128	12	10	1	3	84	0	38	4	27
7	PAVON"S"	MEXICO	3731	64	77	134	0	0	3	2	94	5	31	0	16
9	MAGPIE"S"	MEXICO	3727	68	66	127	10	40	14	13	83	0	34	11	29
17	TESOPACO"S"	MEXICO	3702	69	65	127	20	75	9	1	97	20	41	37	22
44	EMU"S"	MEXICO	3691	68	69	127	2	0	4	11	89	0	39	7	34
42	A-PA(2)F(2)	INIA/MEX	3622	63	74	133	16	-	22	0	95	10	39	33	25
36	UP301 X SON64-PI62	INDIA/LEB	3598	70	59	123	17	60	62	2	80	30	40	0	22
34	TORIM73	MEXICO	3593	69	64	122	14	1	27	3	60	0	36	7	40
48	YECORATO "S"	INIA/MEX	3591	70	63	126	13	-	4	20	71	0	35	7	50
28	MAOFEN	CHILE	3563	63	76	135	1	0	0	30	91	0	34	15	20
45	IAS56	BRAZIL	3524	68	71	131	29	60	16	33	100	20	36	37	23
38	MN7083	U.S.A.	3520	67	65	125	20	70	1	1	86	5	36	0	20
29	FLICKER"S"	MEXICO	3421	66	80	135	33	50	5	4	94	10	35	0	20
50	LOCAL CHECK		3410	69	70	127	9	-	0	5	97	5	36	0	20
22	JUPATECO73	MEXICO	3407	70	66	130	41	50	15	5	92	0	37	26	36
2	BUTTE-ND519	U.S.A.	3367	72	64	129	17	60	0	12	104	0	39	0	23
16	SOLTANE	TUNISIA	3352	69	69	131	30	35	14	4	96	20	39	40	41
6	YSUR-KAL(3)	MEXICO	3319	66	70	131	9	20	16	6	91	20	35	0	39
49	INIA66	MEXICO	3291	70	64	124	27	-	07	5	86	5	38	0	22
1	HORA"S"	MEXICO	3279	68	71	128	31	55	2	2	92	0	31	0	45
25	ANZA	U.S.A.	3179	66	71	134	17	8	27	24	83	5	28	0	35
46	BULBUL	PAKISTAN	3172	68	64	129	56	40	6	20	95	10	35	30	42
39	SONALIKA	INDIA	3164	67	62	125	32	1	30	10	80	5	45	0	36
31	GLENDLA	CANADA	3152	66	73	132	1	0	11	19	118	5	39	7	33
35	TANORI71	MEXICO	3140	65	61	123	37	16	63	2	83	0	34	22	19
27	CONDOR"S"	AUSTRALIA	3075	63	71	135	8	10	21	9	80	5	27	4	30
37	KAL-BB	MEXICO	3058	62	67	125	13	-	10	6	63	0	33	11	34
33	GIZA155	EGYPT	3025	68	68	132	3	1	17	6	105	0	37	0	36
20	CHOLI"S"	CHILE/MEX	3017	66	66	127	0	10	19	32	84	5	31	40	37
5	OLLANTA	PERU	2973	67	59	123	2	0	54	3	100	50	38	7	23
47	M.J.INTA	ARGENTINA	2886	67	77	137	29	30	7	4	100	-	30	0	28
43	PJ-GB X NAI66	PAKISTAN	2871	64	60	128	32	-	19	1	83	5	34	26	55
32	DOUGGA	TUNISIA	2834	62	72	130	12	20	2	1	85	5	30	4	36
40	E.DAKARO	URUGUAY	2621	66	69	134	22	40	1	4	107	5	32	0	56
14	S331-NDA67	INDIA/LEB	2571	60	72	131	13	30	1	3	94	5	33	7	22
13	SIETE CERROS	MEXICO	2337	64	60	130	40	70	17	2	86	30	33	15	52
	SUMMARY MEANS OVER VARIETIES		3482.1	66.4	67.6	129.0	17.0	25.5	15.0	8.5	89.0	7.0	35.6	11.7	30.5
	NUMBER OF LOCATIONS FOR EACH VARIABLE		8	2	7	5	6	1	5	4	7	1	2	1	2
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		24	6	18	11	13	2	8	11	17	1	6	3	5

TABLE 80.
SUMMARY FOR REGION IX (SOUTHERN CONE OF SOUTH AMERICA), 14th ISWYN - 1977-78.
(Locations: Buenos Aires, ARGENTINA; Distrito Federal, Paraná and Río Grande do Sul, BRAZIL; Chillán and Santiago, CHILE.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.	POWD %	SEPT TRIT	SEPT NODO	SCAB %
15	MAPACHE (TRITICALE)	MEXICO	2707	63	59	126	0	2	1	85	36	0	46	80	80
10	MONCHO"S"	MEXICO	2573	70	68	126	0	17	55	78	38	80	61	100	100
47	M.J.INTA	ARGENTINA	2472	77	70	126	14	19	1	78	38	60	84	80	80
7	PAVON"S"	MEXICO	2429	77	74	126	0	30	12	73	30	40	22	40	-
11	PAVON"S"	MEXICO	2407	78	75	125	0	27	16	75	35	40	67	80	60
42	M-RA(2)F(2)	INIA/MEX	2379	73	69	126	8	24	2	76	40	80	61	60	120
21	ANTIZANA	ECUADOR	2253	77	68	125	0	0	21	75	41	40	67	100	100
50	LOCAL CHECK		2219	79	69	125	14	43	28	89	36	80	41	20	-
4	PAVON 76	MEXICO	2216	78	66	126	0	40	18	76	35	60	67	60	100
48	YECORATO "S"	INIA/MEX	2209	77	61	121	6	17	52	62	34	80	84	60	60
28	NAOFEN	CHILE	2204	72	73	129	0	0	65	71	23	60	61	40	-
26	NACOZARI"S"	MEXICO	2178	77	61	122	12	38	29	71	34	60	67	40	-
3	NACOZARI"S"	MEXICO	2178	75	60	119	5	57	22	60	34	80	61	100	100
9	MAGPIE"S"	MEXICO	2168	74	66	127	1	45	9	70	29	80	67	00	100
44	EMU"S"	MEXICO	2156	80	62	127	0	11	9	73	39	60	72	60	80
45	IAS54	BRAZIL	2153	75	69	127	95	42	70	80	25	80	46	40	-
1	HORK"S"	MEXICO	2147	77	66	122	8	40	35	73	29	80	56	100	100
36	UP301 X SON64-PI62	INDIA/LEB	2123	77	57	120	40	35	5	68	35	80	61	60	100
41	CNO"S" X MAD63-CBR"S"/SON-K1	ARGENTINA	2114	78	60	126	0	14	30	70	31	20	47	80	60
38	MN7883	U.S.A.	2095	78	61	125	16	1	0	72	39	60	61	80	100
29	FLICKER"S"	MEXICO	2090	74	70	127	1	33	1	66	34	40	52	80	100
27	CONDOR"S"	AUSTRALIA	2093	78	64	122	20	53	21	63	33	80	61	40	100
18	NACOZARI76	MEXICO	2092	76	61	125	4	25	29	73	35	60	67	100	100
25	ANZA	U.S.A.	2081	78	66	124	12	59	16	68	32	60	67	100	100
19	CHIROCA"S"	MEXICO	2077	80	64	128	0	8	15	70	34	40	67	100	80
17	TESOPACO"S"	MEXICO	2074	75	62	122	14	7	10	82	33	20	22	100	80
12	CUCKOO"S"	MEXICO	2059	77	60	118	14	48	75	72	29	40	72	100	100
40	E.DAKARU	URUGUAY	2057	76	70	132	20	24	1	82	35	40	67	80	80
32	DOUGGA	TUNISIA	2027	76	68	125	10	11	6	65	32	40	41	60	60
22	JUPATECO73	MEXICO	2007	79	61	121	75	45	20	76	30	60	84	60	80
16	SOLTANE	TUNISIA	2003	77	64	126	0	40	3	77	39	80	84	100	100
14	S331-NOR67	INDIA/LEB	2001	71	71	120	6	5	1	74	34	40	67	100	100
2	BUTTE-ND519	U.S.A.	1974	77	64	126	36	0	44	89	30	40	71	60	100
30	ABU-GHRAIB3	IRAQ	1958	75	58	117	55	30	70	67	20	60	67	60	100
23	COCORAQUE75	MEXICO	1953	78	61	123	0	35	13	66	37	60	72	60	80
46	BULBUL	PAKISTAN	1937	75	61	121	10	37	62	79	26	80	67	100	100
6	YSOE-KAL(3)	MEXICO	1934	75	66	121	2	53	13	75	34	20	67	100	100
13	SIETE CERROS	MEXICO	1864	74	65	120	16	51	10	70	31	26	78	80	100
43	PJ-GB X NAI66	PAKISTAN	1814	76	62	122	22	32	31	72	34	60	72	80	60
49	INIA66	MEXICO	1809	78	58	120	6	60	13	70	32	60	89	100	100
20	CHOLI"S"	CHILE/MEX	1789	73	62	130	10	16	33	72	26	60	78	100	100
5	OLLANTA	PERU	1692	74	56	120	2	52	2	82	34	20	62	80	80
31	GLENLEA	CANADA	1645	73	72	116	10	32	2	56	39	60	84	100	120
37	KAL-BB	MEXICO	1625	71	62	120	4	30	21	57	33	0	67	80	100
24	MEXICALI75 (DURUM)	MEXICO	1615	72	59	126	4	5	0	69	52	20	84	60	80
35	TANORI71	MEXICO	1558	75	57	118	16	39	33	67	28	46	78	100	100
34	TORIM73	MEXICO	1551	77	57	118	2	33	16	53	33	40	74	90	60
33	GIZA155	EGYPT	1484	78	66	129	0	38	5	79	38	80	72	100	100
39	SONALIKA	INDIA	1473	74	57	120	12	51	40	72	46	40	89	60	80
	SUMMARY MEANS OVER VARIETIES		2035.2	75.7	63.8	123.4	13.3	30.0	22.2	73.0	33.8	53.9	65.5	77.1	89.5
	NUMBER OF LOCATIONS FOR EACH VARIABLE		6	6	4	2	1	3	2	5	2	1	2	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		18	10	6	4	2	4	2	7	2	1	4	1	1

TABLE 81.

MEAN OVER ALL LOCATIONS FOR YIELD, AGRONOMIC AND DISEASE DATA FOR THE FOURTEEN INTERNATIONAL SPRING WHEAT YIELD NURSERY. 1977-78. (71 locations).

PROMEDIO DE TODOS LOS LUGARES PARA RENDIMIENTO, DATOS AGRONOMICOS Y DE ENFERMEDADES DEL CATORCEAVO ENSAYO INTERNACIONAL DE RENDIMIENTO DE TRIGOS DE PRIMAVERA. 1977-78. (71 localidades).

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	1000 G.W.	POWD %	SEPT TRIT	SEPT NODO	SCAB %	EAPS /M2
15	MAPACHE (TRITICALE)	MEXICO	4212	65	84	139	4	0	6	0	99	13	2	40	6	23	39	80	518
18	NACOZARI76	MEXICO	4020	76	87	137	5	5	22	20	81	16	3	38	40	46	50	100	564
3	NACOZARI"S"	MEXICO	4006	76	86	136	2	33	24	14	81	7	5	37	45	44	52	100	544
26	NACOZARI"S"	MEXICO	4005	77	86	136	2	3	24	14	83	15	8	37	39	42	31	-	555
4	PAVON 76	MEXICO	3997	79	89	138	8	21	7	7	85	17	2	38	43	40	40	100	749
11	PAVON"S"	MEXICO	3929	79	90	139	7	23	7	8	86	16	11	38	45	42	46	60	496
19	CHIROCA"S"	MEXICO	3873	79	87	139	7	5	4	7	89	15	2	36	38	43	41	80	380
12	CUCKOO"S"	MEXICO	3867	77	84	137	17	55	28	23	84	15	1	33	54	48	51	100	735
50	LOCAL CHECK		3822	77	89	138	10	100	20	23	91	21	2	39	43	54	18	-	362
10	MONCHO"S"	MEXICO	3732	77	91	140	3	18	4	16	87	7	3	42	44	35	42	100	753
7	PAVON"S"	MEXICO	3786	77	95	141	7	20	7	15	88	27	8	35	39	26	33	-	642
30	ABU-GHRAIB3	IRAQ	3740	76	84	137	22	45	26	19	82	18	3	33	55	43	38	100	549
29	FLICKER"S"	MEXICO	3708	73	94	141	25	20	17	12	83	27	10	37	53	41	44	100	622
46	BULBUL	PAKISTAN	3673	78	87	137	33	34	22	38	91	25	12	36	52	53	49	100	296
25	ANZA	U.S.A.	3663	77	91	141	9	4	38	27	79	17	1	35	43	45	43	100	733
1	HORK"S"	MEXICO	3661	77	90	138	22	60	7	12	86	24	0	33	46	45	46	100	658
22	JUPATECO73	MEXICO	3645	78	85	138	33	48	20	8	65	18	3	38	39	54	38	80	675
9	MAGPIE"S"	MEXICO	3643	76	86	135	11	30	14	14	78	18	7	39	64	43	40	100	660
17	TESOPACO"S"	MEXICO	3632	76	86	137	11	30	8	7	93	42	11	40	64	33	52	80	591
42	H-RA(2)F(2)	INIA/MEX	3632	73	92	140	8	60	17	10	87	32	9	43	65	37	32	100	427
27	CONDOR"S"	AUSTRALIA	3623	77	91	142	6	5	17	10	76	10	3	36	41	40	25	100	565
21	ANTIZANA	ECUADOR	3524	78	84	138	7	15	18	14	82	16	17	44	31	45	45	100	555
36	UP301 X SON54-PI62	INDIA/LEB	3515	77	81	133	14	30	17	5	79	20	18	40	39	41	35	100	662
44	EMU"S"	MEXICO	3479	78	89	138	3	0	4	6	84	38	0	40	32	46	38	80	352
24	MEXICALI75 (DURUM)	MEXICO	3476	74	84	137	4	0	17	14	81	30	1	49	25	45	41	80	549
48	YECORATO "S"	INIA/MEX	3470	76	86	137	7	60	4	26	70	21	2	38	40	61	43	60	354
28	NACFEN	CHILE	3461	74	96	144	1	0	6	33	88	10	5	36	37	30	31	-	555
16	SOLTANE	TUNISIA	3441	77	87	138	21	37	14	5	89	26	15	42	43	60	50	100	493
47	M.J.INTA	ARGENTINA	3429	77	92	141	23	40	0	5	91	30	19	42	37	50	41	80	369
32	DOUGGA	TUNISIA	3422	77	92	140	11	20	5	5	81	12	6	35	26	32	37	50	540
41	CNO"S" X MAD63-CHR"S"/SON-R1	ARGENTINA	3421	78	85	138	18	50	15	20	88	16	9	40	48	43	44	60	540
38	MN7083	U.S.A.	3405	77	86	137	22	47	3	4	85	32	13	39	35	38	42	100	611
35	TANORI71	MEXICO	3395	77	81	134	20	0	21	10	81	17	5	39	55	46	50	100	491
6	YSOE-CAL(3)	MEXICO	3391	76	91	139	7	28	37	11	89	26	23	38	24	43	48	100	504
20	CHOLI"S"	CHILE/MEX	3381	74	87	138	6	5	19	22	81	19	3	34	52	53	54	100	626
23	COCORAQUE75	MEXICO	3376	77	84	135	8	20	11	15	76	11	3	39	42	57	36	80	620
37	KAL-BB	MEXICO	3370	73	88	137	14	30	13	11	64	1	2	34	32	53	54	100	509
43	PJ-GB X NAI66	PAKISTAN	3333	75	88	139	29	47	30	12	81	21	11	36	39	52	44	60	298
39	SONALIKA	INDIA	3291	76	80	135	15	6	20	17	85	29	7	49	43	59	38	80	493
45	IAS54	BRAZIL	3285	76	90	140	21	40	23	37	94	40	12	37	55	34	26	-	399
34	TORIM73	MEXICO	3276	77	83	134	0	1	14	15	65	3	3	38	39	53	51	60	556
14	S331-MOR67	INDIA/LEB	3266	72	94	141	10	36	4	4	89	22	9	36	32	44	55	100	491
49	INIA66	MEXICO	3238	78	81	134	13	0	29	9	82	15	5	40	54	53	54	100	329
13	SIETE CERROS	MEXICO	3225	75	89	138	35	75	47	0	84	20	23	34	31	58	46	100	502
2	BUTTE-ND519	U.S.A.	3189	78	87	139	13	39	1	18	101	40	3	37	27	40	34	100	875
33	GIZA155	EGYPT	2988	76	89	141	16	1	22	7	98	40	0	40	43	43	48	100	531
40	E.DANARU	URUGUAY	2987	76	92	142	18	30	10	6	102	39	7	36	35	54	40	80	686
31	GLENLEA	CANADA	2959	75	94	141	5	0	7	11	108	40	16	43	29	37	47	100	613
5	OLLANTA	PERU	2946	75	81	134	5	0	40	5	97	55	39	37	31	45	43	80	602
	SUMMARY MEANS OVER VARIETIES		3528.2	76.1	87.6	138.1	12.7	27.2	16.3	13.4	85.3	22.7	7.0	38.3	41.2	44.7	42.1	89.5	545.9
	NUMBER OF LOCATIONS FOR EACH VARIABLE		69	37	57	45	16	3	32	11	68	15	4	37	11	8	4	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		202	79	134	104	35	7	58	20	150	37	10	82	28	18	10	1	3

APPENDIX

Location tables for data returned

from the 13th ISWYN, 1976–77.

HOLETTA
CEREAL STAFF
LATITUDE 009 00°N
LONGITUDE 038 30°E
ELEVATION 2390 M.ABOVE S.L.

DATE PLANTED 6/23/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE 819 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM —

UNUSUAL RAINS TILL END OF OCTOBER LEADING TO LODGING.SPROUTING AND HIGH DISEASE DEVELOPMENT AND ALSO POOR QUALITY.NO INSECT WEED OR PEST PROBLEMS.LOCAL CHECK:ENKOY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.	SCAB %
3	M.J. INTA	ARGENTINA	5000	77	149	105	42	1
27	PACUM (TRITICALE)	MEXICO	4375	55	133	110	40	5
11	SOLTANE	TUNISIA	4335	72	134	100	34	3
5	PAVON "S"	MEXICO	4300	67	131	90	41	10
50	LOCAL CHECK		4225	61	132	100	35	0
23	BLUE JAY "S"	MEXICO	4200	61	119	95	28	15
40	HORK "S"	MEXICO	4160	70	131	95	29	2
29	COWBIRD "S"	MEXICO	4090	68	134	105	42	4
42	PAVON "S"	MEXICO	4075	67	131	100	40	9
38	CUCKOO "S"	MEXICO	4015	57	131	85	32	5
13	NAOFEN	CHILE	4010	74	134	100	37	3
48	MAYA 74	GUATEMALA	3925	59	126	90	42	6
31	PROTOR	U.S.A.	3700	63	126	95	32	10
16	DOUGGA	TUNISIA	3675	68	131	85	28	20
19	ANZA*MEXICANI*WW15	U.S.A.	3660	67	131	85	31	5
46	IAS - 54	BRAZIL	3625	69	144	110	38	2
15	MN 7083	U.S.A.	3600	62	131	85	34	5
44	GLORIA 74	GUATEMALA	3360	74	131	95	33	5
4	CONDOR "S"	AUSTRALIA	3290	85	132	80	31	5
10	SIETE CERROS	MEXICO	3175	67	131	85	27	15
34	BULBUL "S"	PAKISTAN	3050	63	126	100	24	10
25	PAT 19	BRAZIL	2935	87	134	105	39	0
21	PJ62-GRSS X NAI 60	PAKISTAN	2910	72	128	85	28	6
41	CLEOPATRA 74	MEXICO	2825	67	134	95	33	9
9	SAPSUCKER "S"	MEXICO	2770	62	127	105	29	0
33	CARTHAGE	TUNISIA	2740	59	132	85	29	10
39	S 331 - NOR 67	LEBANON	2725	74	129	95	26	2
36	FLICKER "S"	MEXICO	2510	74	126	85	25	8
22	JUPATECO F 73	MEXICO	2375	82	125	100	28	10
47	UP 301 X SON 64-PI 62	LEBANON	2305	54	116	85	34	1
20	INIA 66	MEXICO	2280	56	116	90	30	2
18	POTAM 70	MEXICO	2150	54	116	80	31	10
14	KAL-BB	MEXICO	2075	61	122	65	22	50
12	FLICKER "S"	MEXICO	2075	69	126	95	23	15
32	CHIROCA "S"	MEXICO	2060	65	131	95	24	15
6	MEXICALI C 75 (DURUM)	MEXICO	2050	61	121	85	37	30
37	LACHISH LINE NO. 1569/2	ISRAEL	2040	63	127	90	31	5
30	YECORA 70	MEXICO	2000	58	119	65	27	30
1	ZARAGOZA S75	MEXICO	1900	78	131	80	20	1
26	OLLANTA	PERU	1830	55	116	100	25	8
35	LIMPOPO	RHODESIA	1555	57	119	60	21	15
6	SONALIKA	INDIA	1475	56	119	95	29	15
2	ERA	U.S.A.	1400	63	119	95	35	0
49	CANARIO "S"	MEXICO	1310	68	129	80	24	10
43	ARVAND	IRAN	1310	61	128	100	28	10
17	TEQUILA (BARLEY)	MEXICO	1205	57	112	65	27	2
24	TORIM 73	MEXICO	1180	58	114	75	20	20
7	TANORI 71 RESELECTION	MEXICO	1050	55	116	85	24	20
45	CHENAB 70	PAKISTAN	850	61	116	90	18	30
28	GIZA 155	EGYPT	650	61	127	100	19	15
		GRAND MEAN	2767.7	65.1	126.9	90.5	30.1	9.8

STANDARD ERROR OF GRAND MEAN
COEFFICIENT OF VARIATION AS PC
LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD	KG/HA					
FLOW	DAYS	0.32				
MAT	DAYS	0.68	0.61			
PLNT	HT	0.42	0.27	0.52		
1000	G.W.	0.71	0.17	0.50	0.47	
SCAB	%	-0.39	-0.30	-0.39	-0.47	-0.45

DR.J.L. HUGHES
LATITUDE 061 34°N
LONGITUDE 149 16°W
ELEVATION 0061 M.ABOVE S.L.

DATE PLANTED 5/20/77
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE 10 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING TIME. MOIST CONDITION OF SOIL AT SOWING. GOOD GERMINATION. NORMAL WEATHER CONDITIONS DURING THE TEST NO INSECT WEED OR PEST PROBLEMS. LOCAL CHECK: GRASSER.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT
16	DOUGGA	TUNISIA	3647	82	199	236	72
13	NAOFEN	CHILE	3636	82	203	232	72
1	ZARAGOZA S75	MEXICO	3634	80	200	236	61
44	GLORIA 64	GUATEMALA	3576	79	202	236	72
36	FLICKER "S"	MEXICO	3560	80	202	233	66
6	SONALIKA	INDIA	3560	80	200	233	72
40	HORK "S"	MEXICO	3467	84	201	234	71
12	FLICKER "S"	MEXICO	3459	81	202	232	66
19	ANZA=MEXICANI=WW15	U.S.A.	3442	83	201	233	61
32	CHIROCA "S"	MEXICO	3423	83	197	234	76
10	SIETE CERROS	MEXICO	3355	83	201	234	70
38	CUCKOO "S"	MEXICO	3311	82	197	232	68
39	S 331 - NOR 67	LEBANON	3235	81	201	234	73
14	KAL-BB	MEXICO	3210	83	200	235	50
15	PN 7083	U.S.A.	3183	82	197	232	68
4	CONDOR "S"	AUSTRALIA	3180	83	202	239	59
25	PAT 19	BRAZIL	2931	80	202	241	92
9	SAPSUCKER "S"	MEXICO	2869	81	201	233	71
2	FRA	U.S.A.	2808	83	203	233	61
29	COWBIRD "S"	MEXICO	2806	81	201	232	68
27	RACUM (TRITICALE)	MEXICO	2628	72	202	233	71
24	TORIM 73	MEXICO	2628	83	201	231	48
22	JUPATECO F 73	MEXICO	2617	82	200	233	66
31	PROTOR	U.S.A.	2609	83	200	231	67
5	PAVON "S"	MEXICO	2590	83	199	234	72
41	CLEOPATRA 74	MEXICO ***	2582	82	201	231	62
37	LACHISH LINE NO. 1568/2	ISRAEL	2571	82	199	233	78
28	GIZA 155	EGYPT	2552	82	201	233	67
21	PJ62-GB55 X NAI 60	PAKISTAN	2535	83	202	234	67
45	CHENAB 70	PAKISTAN	2535	81	200	232	65
46	IAS - 54	BRAZIL	2530	80	200	231	79
23	BLUE JAY "S"	MEXICO	2486	81	199	233	62
11	SOLTANE	TUNISIA	2472	82	199	233	71
48	MAYA 74	GUATEMALA	2470	82	200	233	59
42	PAVON "S"	MEXICO	2442	83	200	233	69
34	BULBUL "S"	PAKISTAN	2434	83	201	232	70
17	TEQUILA (BARLEY)	MEXICO	2410	60	203	226	45
26	OLLANTA	PERU	2390	79	200	230	73
7	TANORI 71 RESELECTION	MEXICO	2382	82	200	232	58
18	POTAM 70	MEXICO	2325	81	201	230	62
43	ARVAND	IRAN	2278	80	199	233	61
49	CAVARIO "S"	MEXICO	2235	80	200	238	57
50	LOCAL CHECK		2210	77	199	230	72
30	YECORA 70	MEXICO	2186	82	199	231	46
3	M.J. INTA	ARGENTINA	2123	82	203	235	70
47	UP 301 X SON 64-PI 62	LEBANON	1913	79	198	232	62
35	LIMPOPO	RHODESIA	1656	80	202	232	40
20	INIA 66	MEXICO	1535	82	202	232	57
33	CARTHAGE	TUNISIA	1341	83	201	233	60
8	MEXICALI C 75 (DURUM)	MEXICO	1008	71	201	237	59
		GRAND MEAN	2699.6	80.7	200.5	233.1	65.2
		STANDARD ERROR OF GRAND MEAN	43.2	0.1	0.2	0.2	0.4
		COEFFICIENT OF VARIATION AS PC	19.6	0.9	1.2	1.1	7.7
		LSD VARIETY MEANS 5 PC	857.2	1.2	3.8	4.0	8.1

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.24				
FLOW	DAYS	-0.04	-0.22			
MAT	DAYS	0.20	0.26	0.07		
PLNT	HT	0.38	0.20	-0.12	0.31	

PERGAMINO
O.POLIDORO
LATITUDE 033 56'S DATE PLANTED 7/ 6/77 NITROGEN --
LONGITUDE 060 33'W DATE HARVESTED 12/16/77 PHOSPHORUS --
ELEVATION 0065 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM POTASSIUM --

NORMAL SOWING TIME.MOIST CONDITIONS OF SOIL AT SOWING.GOOD GERMINATION
FROST DAMAGE DURING THE FLOWERING STAGE.NO INSECT WEED OR PEST
PROBLEMS.LOCAL CHECK:DEKALB LIRUNDAY.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.	SEPT TRIT	FUS WILT
36	FLICKER "S"	MEXICO	1633	79	93	137	60S	0	70	36	89	75
15	MN 7083	U.S.A.	1569	79	92	137	T-60S	0	65	38	50	50
25	PAT 19	BRAZIL	1567	78	106	144	60S	60	88	36	28	50
10	HORK "S"	MEXICO	1489	79	93	136	0	0	65	34	89	100
13	NAOFEN	CHILE	1433	77	103	147	10S	80S	75	32	50	50
43	ARVAND	IRAN	1433	71	96	136	100S	40	85	38	67	75
5	PAVON "S"	MEXICO	1422	81	94	137	5MS	0	75	36	61	75
46	IAS - 54	BRAZIL	1400	80	97	143	80S	30MS	88	36	33	75
29	CHWBIRD "S"	MEXICO	1367	79	92	137	60M	0	70	40	61	75
12	FLICKER "S"	MEXICO	1300	76	91	137	20S	0	70	36	78	50
22	JUPATECO F 73	MEXICO	1300	79	87	136	TS	10	75	36	44	75
23	BLUE JAY "S"	MEXICO	1244	77	92	138	80S	0	70	34	55	75
2	ERA	U.S.A.	1233	79	113	161	TR	0	70	28	28	25
42	PAVON "S"	MEXICO	1222	80	97	143	40S	0	70	36	67	75
1	ZARAGOZA S75	MEXICO	1200	76	99	145	10MS	0	60	36	78	75
10	SIETE CERROS	MEXICO	1200	80	96	143	60S	0	70	34	61	75
21	PJ62-GR55 X NAI 60	PAKISTAN	1133	78	96	139	10S	0	75	36	84	75
44	GLORIA 74	GUATEMALA	1133	78	99	144	60S	0	75	38	44	75
32	CHIROCA."S"	MEXICO	1122	79	93	141	0	0	65	34	61	75
33	CARTHAGE	TUNISIA ***	1111	79	92	135	60S	0	70	32	67	75
3	M.J. INTA	ARGENTINA	1111	79	91	139	30MS	0	75	40	67	75
34	PULBUL "S"	PAKISTAN	1078	79	94	140	5S	10S	75	34	78	50
11	SOLTANE	TUNISIA	1022	80	87	134	50S	0	73	38	67	75
50	LOCAL CHECK		1000	79	93	136	30S	0	70	32	61	100
27	BACUM (TRITICALE)	MEXICO	978	69	93	140	10MS	0	73	36	33	75
16	DOUGGA	TUNISIA	955	78	95	140	20MS	0	70	30	44	75
38	CUCKOO "S"	MEXICO	922	80	90	136	40S	80S	65	34	67	75
19	ANZA=MEXICANI=WW15	U.S.A.	889	80	94	138	70S	10	65	32	78	75
31	PROTOR	U.S.A.	878	79	86	133	60S	10MS	70	34	67	75
4	CONDOR "S"	AUSTRALIA	878	79	96	143	60S	20	63	34	39	75
17	TEQUILA (BARLEY)	MEXICO	844	56	92	-	100S	--	60	28	-	50
47	UP 301 X SON 64-PI 62	LEBANON	833	77	85	133	80S	0	70	36	61	75
39	S 331 - NOR 67	LEBANON	822	80	99	137	TMS-S	0	80	32	33	50
26	OLLANTA	PERU	778	75	85	134	70S	0	75	32	55	50
37	LACHISH LINE NO. 1568/2	ISRAEL	778	78	96	141	90S	20S	70	44	61	50
6	SONALIKA	INDIA	778	80	85	134	60S	0	70	44	61	75
7	TANORI 71 RESELECTION	MEXICO	767	80	84	133	30S	0	70	32	67	75
9	SAPSUCKER "S"	MEXICO	689	77	91	138	40S	TMR	75	36	55	75
41	CLEOPATRA 74	MEXICO	678	76	91	136	50S	0	60	42	55	75
28	GIZA 155	EGYPT	589	77	96	143	50S	0	75	36	67	75
14	KAL-BB	MEXICO	567	78	93	146	60S	10MS	50	36	67	50
48	MAYA 74	GUATEMALA	544	79	87	145	TMS	0	70	38	78	75
45	CHENAB 70	PAKISTAN	400	78	86	134	60S	0	70	36	67	75
8	MEXICALI C 75 (DURUM)	MEXICO	378	75	87	135	10MS	1	75	48	28	100
18	POTAM 70	MEXICO	367	69	85	133	40S	0	60	40	61	75
30	YECORA 70	MEXICO	367	-	86	135	100S	20S	53	40	78	75
20	INIA 66	MEXICO	333	-	85	132	80S	0	65	32	56	100
35	LIMPOPO	RHODESIA	267	-	87	136	80S		45	34	67	50
49	CANARIO "S"	MEXICO	244	-	97	-	60S	7[illegible]	50	36	61	50
24	TORHM 73	MEXICO	188	-	86	133	40S	1	50	36	78	75
		GRAND MEAN	949.0	77.4	92.4	138.5	46.9		69.2	35.8	60.2	70.0
		STANDARD ERROR OF GRAND MEAN	21.1		0.1	0.1	0.7		0.1		0.5	
		COEFFICIENT OF VARIATION AS PC	27.2		0.6	0.4	14.3		1.9		7.9	
		LSD VARIETY MEANS 5 PC	419.0		1.1	1.0	13.4		2.7		9.6	

CORRELATIONS

YIELD	KG/HA								
TEST	WT	0.18							
FLOW	DAYS	0.51	0.09						
MAT	DAYS	0.[illegible]	0.09	0.85					
LEAF	RUST	-0.25	-0.25	-0.21	-0.26				
PLNT	HT	0.56	0.16	0.30	0.13	-0.18			
1000	G.W.	-0.17	0.09	-0.29	-0.24	0.09	0.03		
SEPT	TRIT	-0.07	0.09	-0.37	-0.32	0.06	-0.37	0.01	
FUS	WILT	-0.09	0.14	-0.45	-0.29	-0.01	0.09	0.26	0.20

MARCOS JUAREZ
R.FORNATE
LATITUDE 032 42°S
LONGITUDE 062 07°W
ELEVATION 0110 M.ABOVE S.L.

DATE PLANTED 7/ 8/77
DATE HARVESTED 11/30/77
AMOUNT OF MOISTURE -- MM

NITROGEN —
PHOSPHORUS --
POTASSIUM —

NORMAL SOWING TIME. GOOD GERMINATION. HIGH TEMPERATURES AND LACK OF MOISTURE AFFECTED GRAIN YIELD. NO INSECT WEED OR PEST PROBLEMS. LOCAL CHECK: LEONES INTA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT
15	MN 70R3	U.S.A.	2522	75	0	70	0	33	4
48	MAYA 74	GUATEMALA	2311	77	5S	60	20	26	3
25	PAT 19	BRAZIL	2300	78	80S	90	0	32	4
40	HORK "S"	MEXICO	2300	71	15S	70	0	30	4
13	NAOFEN	CHILE	2300	75	20S	70	0	31	5
42	PAVON "S"	MEXICO	2266	73	60S	75	0	23	2
22	JUPATECO F 73	MEXICO	2222	74	60S	65	0	31	3
50	LOCAL CHECK		2133	75	70S	60	0	28	2
5	PAVON "S"	MEXICO ***	2078	74	80S	70	0	30	5
34	BULBUL "S"	PAKISTAN	2033	75	80S	75	0	26	2
32	CHIROCA "S"	MEXICO	1966	75	30MS	70	0	27	5
38	CUCKOO "S"	MEXICO	1944	71	70S	65	0	27	2
47	UP 301 X SON 64-PI 62	LEBANON	1800	71	50S	60	15	28	5
29	COWBIRD "S"	MEXICO	1778	73	70S	70	30	32	3
9	SAPSUCKER "S"	MEXICO	1744	70	70S	75	0	30	3
1	ZARAGOZA S75	MEXICO	1744	71	15S	60	0	28	3
44	GLORIA 74	GUATEMALA	1733	74	80S	80	10	29	3
23	BLUE JAY "S"	MEXICO	1733	67	70S	70	0	20	3
27	RACUM (TRITICALE)	MEXICO	1722	59	60S	80	0	37	3
8	MEXICALI C 75 (DURUM)	MEXICO	1666	72	60S	65	20	26	3
3	M.J. INTA	ARGENTINA	1655	71	60S	75	0	31	5
37	LACHISH LINE NO. 1568/2	ISRAEL	1655	73	70S	70	0	33	3
46	IAS - 54	BRAZIL	1655	71	0	75	0	24	0
31	PROTOR	U.S.A.	1644	71	60S	65	0	23	4
12	FLICKER "S"	MEXICO	1600	69	70S	65	0	28	3
26	OLLANTA	PERU	1589	70	60S	80	0	26	3
36	FLICKER "S"	MEXICO	1578	66	60S	65	0	23	4
21	PJ62-GB55 X NAI 60	PAKISTAN	1533	71	70S	60	0	28	3
16	DOUGGA	TUNISIA	1533	69	50S	65	0	25	5
18	POTAM 70	MEXICO	1511	69	70S	50	0	26	5
41	CLEOPATRA 74	MEXICO	1511	71	70S	60	15	31	3
7	TANORI 71 RESELECTION	MEXICO	1500	71	80S	65	0	35	2
11	SOLTANE	TUNISIA	1455	70	60S	65	10	33	4
6	SOR LIKA	INDIA	1444	70	60S	70	0	26	3
39	S 331 - NOR 67	LEBANON	1433	67	70S	65	0	26	5
45	CHENAB 70	PAKISTAN	1355	72	80S	60	[illegible]	28	4
2	ERA	U.S.A.	1344	79	70S	75	0	26	1
35	LIMPOPO	RHODESIA	1344	66	50S	40	20	23	4
33	CARTHAGE	TUNISIA	1344	71	70S	60	0	24	6
19	ANZA=MEXICANI=WW15	U.S.A.	1289	70	80S	65	0	25	3
10	SIETE CERROS	MEXICO	1289	66	60S	65	0	30	4
49	CANARIO "S"	MEXICO	1267	64	60S	65	0	24	3
30	YECORA 70	MEXICO	1233	67	60S	50	0	25	3
28	GIZA 155	EGYPT	1233	71	70S	75	0	26	5
14	KAL-BB	MEXICO	1211	63	60S	50	0	26	3
24	TORIM 73	MEXICO	1189	67	50S	50	0	26	5
20	INIA 66	MEXICO	1167	70	90S	60	0	24	2
4	CONDOR "S"	AUSTRALIA	1122	70	70S	55	10	21	3
43	ARVAND	IRAN	1089	67	70S	75	0	30	2
17	TEQUILA (BARLEY)	MEXICO	778	51	---	60	99	21	-
		GRAND MEAN	1636.9	70.2	59.2	66.0	5.0	27.5	3.4

STANDARD ERROR OF GRAND MEAN 17.8
COEFFICIENT OF VARIATION AS PC 13.3
LSD VARIETY MEANS 5 PC 353.9

CORRELATIONS

YIELD	KG/HA						
TEST	WT.	0.63					
LEAF	RUST	-0.43	-0.11				
PLNT	HT	0.40	0.32	0.05			
LODG	"	-0.27	-0.40	-0.04	-0.19		
1000	G.W.	0.38	0.25	-0.02	0.37	-0.21	
SEPT	TRIT	0.02	-0.06	-0.16	-0.17	-0.01	0.04

LA PLATINA
J.RAMIREZ

LATITUDE	033 27°S	DATE PLANTED	7/ 8/77	NITROGEN	--
LONGITUDE	070 38°W	DATE HARVESTED	11/30/77	PHOSPHORUS	--
ELEVATION	0629 M.ABOVE S.L.	AMOUNT OF MOISTURE	275 MM	POTASSIUM	--

LATE SOWING TIME.MOIST CONDITIONS OF SOIL AT SOWING.WINTER RAINFALL HIGHER THAN NORMAL SPRING WITH HIGHER AVERAGE THAN NORMAL. INSECT DAMAGE. WEED OR PEST PROBLEMS NOT. REPORTED.LOCAL CHECK:AURIFEN.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	STRP RT.L	STEM RUST	PLNT HT	BYDV
33	CARTHAGE	TUNISIA	3180	81	0	5S	80	30
36	FLICKER "S"	MEXICO	3173	76	TR	TS	80	10
12	FLICKER "S"	MEXICO	2736	77	0	0	80	30
10	SIETE CERROS	MEXICO	2708	77	5S	0	90	20
15	MN 7083	U.S.A.	2673	76	0	0	85	30
2	FRA	U.S.A.	2659	76	0	0	80	20
46	IAS - 54	BRAZIL	2645	75	0	60S	85	30
29	COWBIRD "S"	MEXICO	2604	77	0	TS	85	30
1	ZARAGOZA S75	MEXICO	2576	77	0	0	65	5
22	JUPATECO F 73	MEXICO	2527	77	5MR	0	80	10
4	ARYAND	IRAN ***	2507	71	10S	50S	90	20
.	BLUE JAY "S"	MEXICO	2486	77	0	20S	75	20
.	ANZA=MEXICANI=WW15	U.S.A.	2465	76	0	40S	80	15
	M.J. INTA	ARGENTINA	2451	76	0	10S	95	30
14	BULBUL "S"	PAKISTAN	2409	78	15S	40S	95	15
50	LOCAL CHECK		2354	77	0	20S	75	20
47	UP 301 X SON 64-PI 62	LEBANON	2340	79	0	0	80	50
5	PAVON "S"	MEXICO	2277	75	0	5S	80	50
21	PJ62-G855 X NAI 60	PAKISTAN	2270	76	0	5S	80	40
42	PAVON "S"	MEXICO	2236	77	0	0	80	40
18	POTAM 70	MEXICO	2201	76	0	10S	70	30
16	DOUGGA	TUNISIA	2201	76	0	0	35	10
13	NAOFEN	CHILE	2187	73	0	30S	90	30
11	SOLTANE	TUNISIA	2125	75	Z	5R	85	40
30	YECORA 70	MEXICO	2118	76	0	0	65	30
38	CUCKOO "S"	MEXICO	2111	77	0	20S	65	60
35	LIMPOPO	RHODESIA	2097	71	0	0	55	20
31	PROTOR	U.S.A.	2055	76	0	0	85	40
4	CONDOR "S"	AUSTRALIA	1923	77	0	20S	75	30
45	CHENAB 70	PAKISTAN	1916	74	0	5S	80	40
20	INIA 66	MEXICO	1896	76	5MS	TS	75	40
40	MORK "S"	MEXICO	1889	77	0	40S	85	30
48	MAYA 74	GUATEMALA	1875	76	0	10S	85	50
44	GLORIA 74	GUATEMALA	1875	75	0	0	90	30
17	TEQUILA (BARLEY)	MEXICO	1854	-	0	0	60	80
24	TORIM 73	MEXICO	1750	75	0	10S	60	40
7	TAMORI 71 RESELECTION	MEXICO	1736	73	0	5S	70	70
26	OCCANTA	PERU	1715	70	0	0	95	40
37	LACHISH LINE NO. 1568/2	ISRAEL	1708	76	0	20S	75	40
39	S 331 - NOR 67	LEBANON	1701	71	0	5S	80	40
9	SAPSUCKER "S"	MEXICO	1687	74	0	40S	80	40
32	CHIROCA "S"	MEXICO	1673	77	0	0	85	20
25	PAT 19	BRAZIL	1611	77	40S	TS	110	90
14	KAL-BB	MEXICO	1604	71	0	0	55	50
49	CANARIO "S"	MEXICO	1541	70	0	30S	60	50
6	SONALIKA	INDIA	1437	73	0	0	85	70
27	RACUM (TRITICALE)	MEXICO	1430	-	0	0	85	70
41	CLEOPATR 74	MEXICO	1326	69	0	0	70	50
28	GIZA 155	EGYPT	1014	73	0	0	90	40
8	MEXICALI C 75 (DURUM)	MEXICO	668	69	0	0	70	40
		GRAND MEAN	2083.8	75.1		10.2	79.2	36.9

STANDARD ERROR OF GRAND MEAN 28.4
COEFFICIENT OF VARIATION AS PC 16.7
LSD VARIETY MEANS 5 PC 563.7

CORRELATIONS

YIELD KG/HA				
TEST WT	0.62			
STEM RUST	0.14	-0.02		
PLNT HT	0.14	0.24	0.11	
BYDV	-0.54	-0.20	-0.18	-0.06