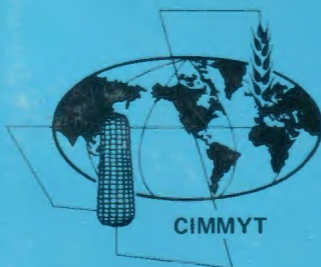


**RESULTS OF THE NINTH
INTERNATIONAL TRITICALE
YIELD NURSERY
(ITYN) 1977-1978**



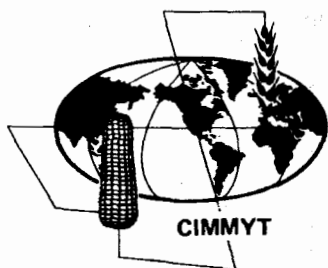
CENTRO INTERNACIONAL DE MEJORAMIENTO DE MAIZ Y TRIGO

INTERNATIONAL MAIZE AND WHEAT IMPROVEMENT CENTER

Londres 40, Apdo. Postal 6-641, México 6, D.F. México

INFORMATION BULLETIN No. 49

**RESULTS OF THE NINTH
INTERNATIONAL TRITICALE YIELD NURSERY
(ITYN) 1977-78**



**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 BIT	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)	Rayée 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 floraison
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 dus 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 (taillles/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 protefna	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Plétin verse en pourcentage
SCAB %	Scab percentage	Porcentaje de roña	Fusarium de l'épi en pourcentage
SCLD %	Scald percentage	Porcentaje de escaldadura	Rhynchosporium en pourcentage
SDMT INDX	Sedimentation index (cc)	Indice de sedimentación (cc)	Indice de sédimentation (cc)
SEED TYPE	Seed type (L=large, M=medium, S=small)	Tipo de semilla (L=grande; m=mediano, s=pequeño)	Type de grain (L=large, M=moyen: S=petit)
SEPT 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'épi 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/hi)	Peso hectolítrico (kg/hi)	Poids spécifique (kg/hi)
1000 G.W.	1000 grain weight (grams)	Peso de 1000 granos (gramos)	Poids de 1000 grains (grames)
YELL BERR	Yellow berry percentage	Porcentaje de panza blanca	Mitadinage en pourcentage
YIELD KG/HA	Yield kg/ha	Rendimiento kg/ha	Rendement kg/ha

RESULTS OF THE NINTH INTERNATIONAL TRITICALE YIELD NURSERY (ITYN)

1977 - 1978

INTRODUCTION

This report provides a summary of the results of the 9th ITYN from 67 sites which were received from the 110 locations in the world, to where this nursery was sent during 1977-1978. The 9th ITYN contained triticale lines that have been identified in earlier ITYN trials as having good yield potential and wide adaptation, and also new advanced lines showing good performance in Mexico and in the International Triticale Screening Nursery.

The ITYN program has the following three objectives:

1. Distribution of superior spring triticale germ plasm to national and regional breeding programs.
2. Identification of triticales with high yield potential and wide adaptation.
3. Identification of superior disease resistance.

Until now, most of the entries included in the ITYN program have come from the CIMMYT breeding program; however national programs are encouraged to send their best triticale lines to be included in the nursery.

MATERIALS AND METHODS

Seed for the entries included in this nursery was multiplied in the Yaqui Valley, Sonora, Mexico during the winter cycle of 1976-1977. The nursery consisted of 25 entries of which 20 were triticales, two bread wheats, one durum wheat, one barley and one local check. Before distribution, the seed was cleaned and treated with an organic fungicide. Each plot consisted of six rows, each 2.5 meters long with 30 centimeters between rows and with three replications. 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 9th ITYN and various agronomic characteristics collected in Yaqui Valley, Sonora, Mexico are given in Table A. Figures 1 and 2 illustrate the locations which returned data to CIMMYT. Figure 2 also gives the approximate growing period and elevation of each of the locations. The geographical distribution of the trial location regions is shown in figure 3.

RESULTS AND DISCUSSION

Of the 110 nursery sets distributed, 67 cooperators returned their results before the closing deadline. These results are presented in tables 1-67. Summaries for 14 regions are presented in tables 68-81. Table 82 gives a summary of the data for all locations.

The five entries with the best average yield were: Local Check (3900 kg/ha), Mapache (3842 kg/ha), Beagle (3820 kg/ha), Maya I-Arm (3721 kg/ha) and F.S. 1897 (3669 kg/ha). This confirms the results from the 8th ITYN where Beagle and Mapache were ranked as one and two respectively.

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 Sciences/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 9th INTERNATIONAL TRITICALE YIELD NURSERY 1977-78

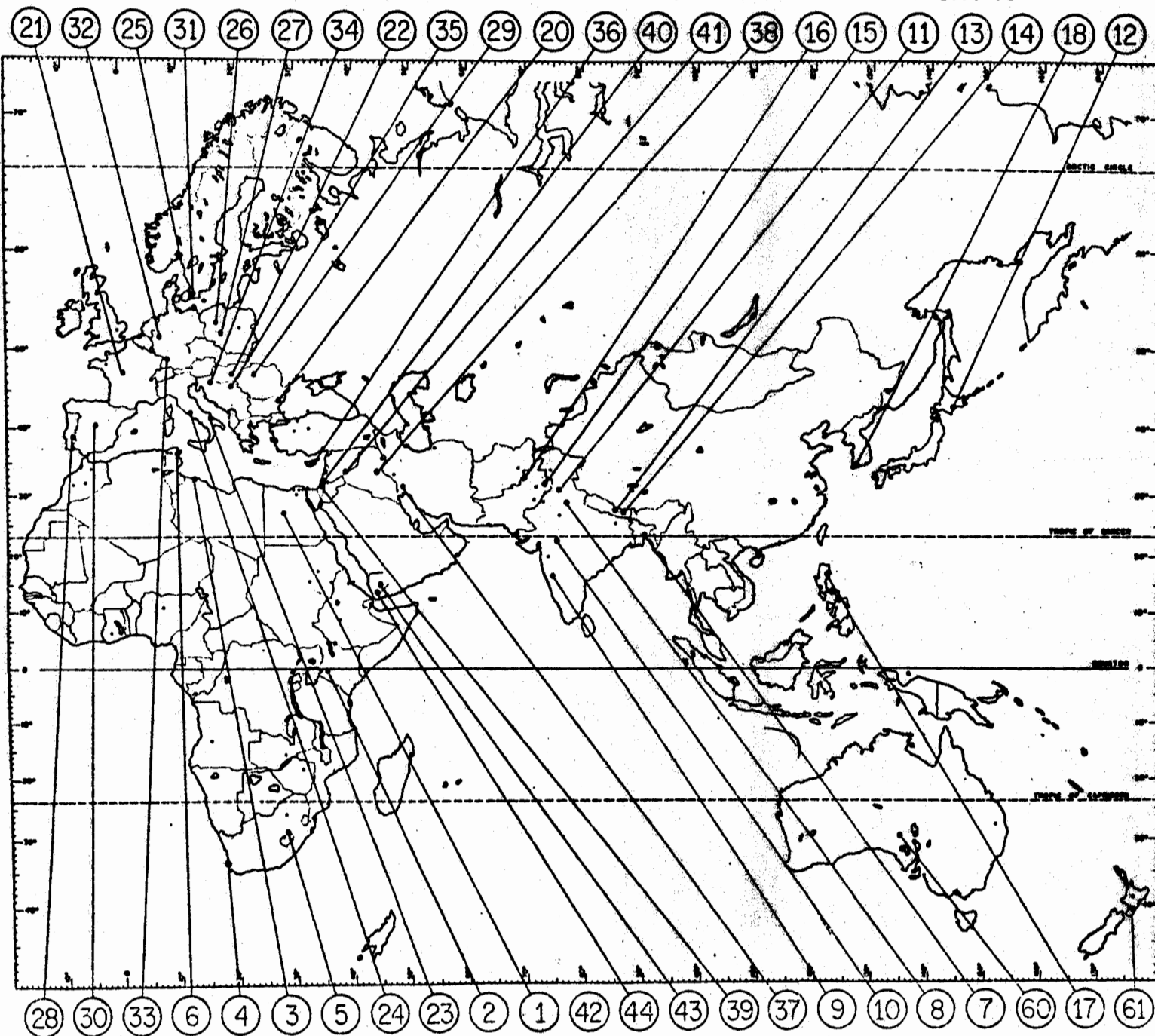


FIGURE 1. Cont'd

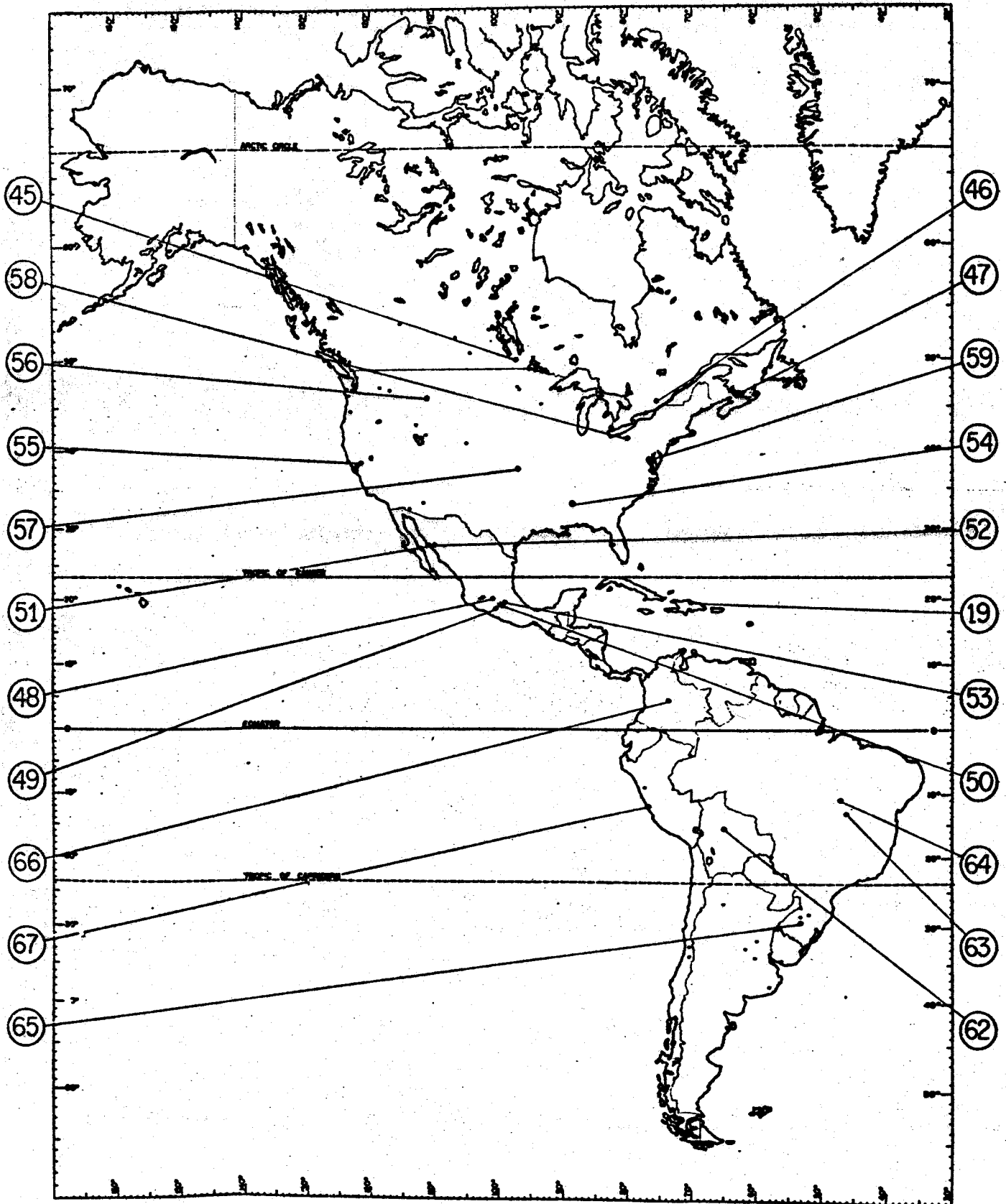


Figure 2. Growing season and elevation of locations reported in the 9th International Triticale Yield Nursery 1977-78.

Table No.	1977					1978					ELEVATION (Meters)									
	M	J	J	A	S	O	N	D	J	F		M	A	M	J	J	A	S	O	N
<u>AFRICA</u>																				
1																				---
2																				2165
3																				0010
4																				0152
5																				1631
6																				0150
<u>ASIA</u>																				
7																				0007
8																				0022
9																				0638
10																				0600
11																				0247
12																				0196
13																				1933
14																				1700
15																				0213
16																				0019
17																				0021
18																				0025
<u>CARIBBEAN</u>																				
19																				---
<u>EUROPE</u>																				
20																				0236
21																				0340
22																				0122
23																				---
24																				---
25																				0090
26																				0090
27																				0200
28																				0208
29																				0066
30																				0202
31																				0050
32																				0487
33																				0070
34																				0116
35																				0084

Table No	1977					1978					ELEVATION (Meters)								
	M	J	J	A	S	O	N	D	J	F		M	A	M	J	J	A	S	O
<u>MIDDLE EAST</u>																			
36																			0150
37																			1100
38																			0034
39																			0030
40																			0120
41																			0575
42																			0010
43																			0235
44																			01350
<u>NORTH AMERICA</u>																			
45																			0235
46																			0333
47																			0015
48																			1765
49																			2640
50																			2249
51																			0038
52																			0038
53																			---
54																			---
55																			0018
56																			1463
57																			0360
58																			0315
59																			0762
<u>OCEANIA</u>																			
60																			0023
61																			0015
<u>SOUTH AMERICA</u>																			
62																			2730
63																			1000
64																			---
65																			0473
66																			2550
67																			0251

* Date harvested not reported
 ** Date harvested & planted not reported

FIGURE 3. REGIONAL SUMMARY (GROUP I-IV) FOR THE 9th INTERNATIONAL TRITICALE YIELD NURSERY (ITYN) 1977-78

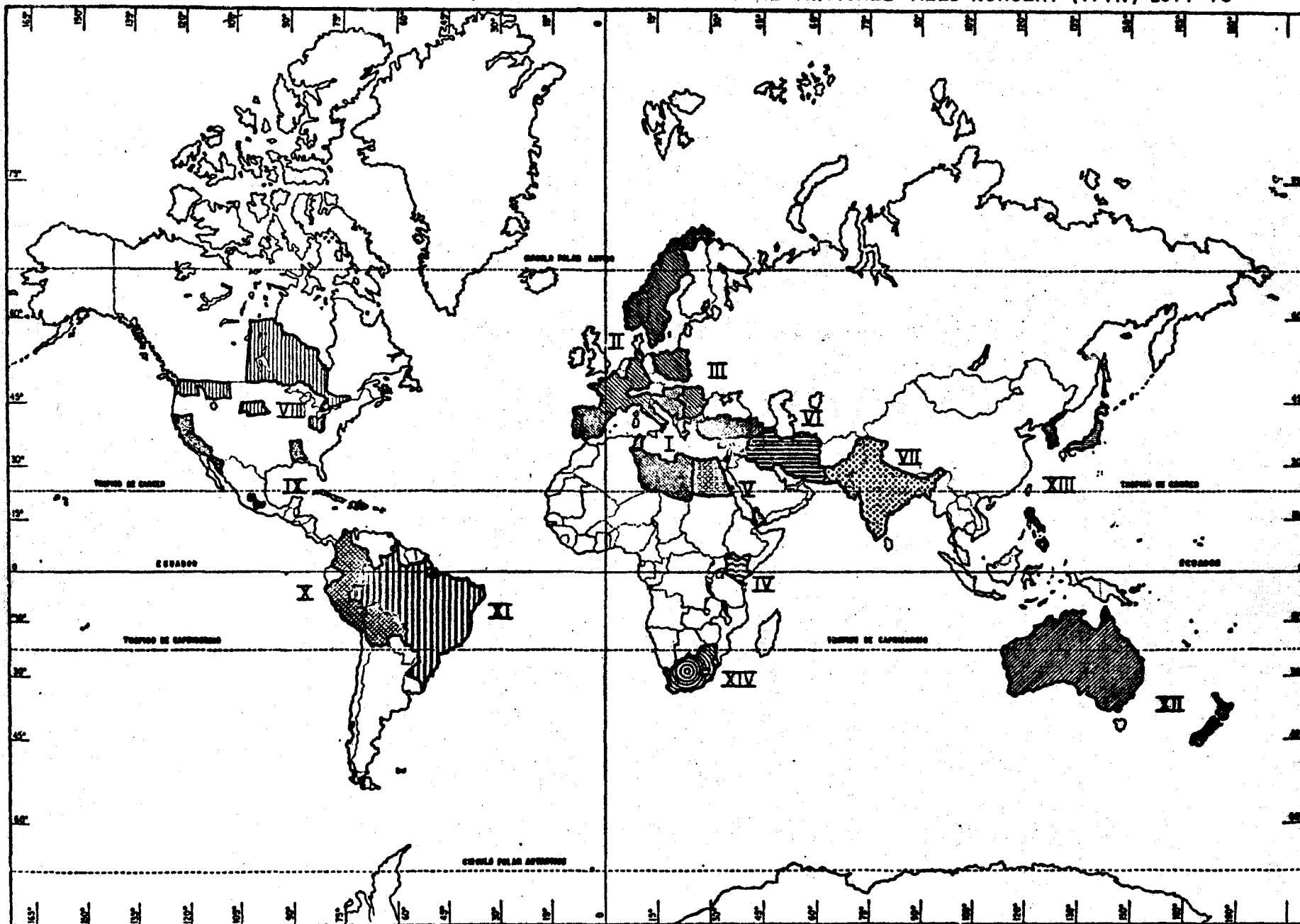


Table A. Identities of the entries and various agronomic characteristics recorded in CIANO, Sonora, México, during the cycle 1977-78 for the 9th International Triticale Yield Nursery (ITYN).

Entry No	Variety or Cross	YLD K/HA	TEST WT	PLT HT	FLOW DAYS	LEAF RUST
1	Yoreme Tc 75	5474	71	92	71	80S
2	Navojoa	4594	71	92	73	40MS-S
3	Arabian	5059	71	93	74	10S-MS
4	Bacum	5248	71	88	67	30S-MS
5	Nacozari 76 (Bread Wheat)	4478	79	78	74	30S-MS
6	Mapache	5977	69	97	69	20MR-20S
7	Rahum	5916	74	102	75	0-50MS-MR
8	Yoco (Reselection)	4767	70	97	77	30S-MS
9	Lince	5869	71	105	75	30MS-S
10	Mexicali 75 (Durum Wheat)	4966	80	82	63	20MS-S
11	F. S. 1897	5538	73	105	69	30-50S
12	Octo Bulk-Bush	5945	74	103	78	50MS-S
13	Maya I-Arm	5481	72	95	74	30S-MS
14	M2A-Ira	5887	71	93	68	30X
15	Cinnamon	5787	69	98	77	40S-MS
16	M2A (2)	5528	68	97	76	50S-MS
17	IRA (2)	5700	69	87	64	70S-MS
18	IA-Bulk E ₂	5548	72	95	71	20S-MS
19	IRA-Cal	5742	73	88	71	30MS-MR
20	Siete Cerros (Bread Wheat)	4077	80	87	75	60S-MS
21	Beagle	5552	68	113	78	TR/20S-MS
22	Drira	5917	66	112	90	5R-MR
23	73 UM 8518	4113	64	110	90	10MS-10S
24	Tequila (Barley)	3942	57	80	92	0
25	Local Check = Bongo "S"	5548	71	87	76	10MR/80S

9TH ITM

TABLE 1 AFRICA

EGYPT

DOMIAT

SEMN R.S.
M.A. MUSA ET ALLATITUDE
LONGITUDE
ELEVATIONDATE PLANTED
DATE HARVESTED11/29/77
5/15/78NITROGEN
PHOSPHORUS
POTASSIUMAPPLIED
APPLIED

M.ABOVE S.L.

AMOUNT OF MOISTURE

-- MM

SOIL MOISTURE CONDITION AT SOWING NOT REPORTED. GERMINATION GOOD.
WEATHER NOT REPORTED. DISEASE DEVELOPMENT NOT REPORTED.
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DATE	MAT DAYS	LEAF RUST	PLNT HT	LODG %	SHTR %	1000 G.W.
5	NACQZARI (BREAD WHEAT)	MEXICO	1977	82	99	150	20S	96	8	25	48
8	YOCO(RESEL)	MEXICO	1750	72	101	159	20S	100	5	40	53
3	ARABIAN	MEXICO	1743	71	98	156	20S	100	5	40	53
11	P.S.1897	MEXICO	1573	71	96	160	5MR-MS	129	27	25	46
4	BACUM	MEXICO	1493	70	98	158	10S	120	30	40	45
12	OCTO BULK - BUBB	MEXICO	1473	73	101	153	10MR	104	10	40	50
25	LOCAL CHECK		1403	80	93	153	5MR	100	13	30	50
9	LINCE	MEXICO	1383	67	94	156	10MS	109	17	27	46
2	NAVOJOA	MEXICO	1320	72	96	154	10S	102	15	40	48
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1303	77	103	161	50S	111	17	25	41
1	YOREME TC75	MEXICO ***	1243	68	97	150	10S	103	8	40	53
13	MAYA I-ARM	MEXICO	1243	70	99	150	5MR	100	13	20	37
7	BARUM	MEXICO	1223	63	95	154	10MR	109	37	30	41
16	M2A(2)	MEXICO	1210	69	98	150	5MR	109	13	40	49
21	BEAGLE	MEXICO	1207	67	96	150	10MR-MS	122	23	15	43
22	DRIRA	MEXICO	1150	67	101	161	10MS	123	15	15	57
23	73UM8518	CANADA	1123	69	102	160	5MR	100	7	37	47
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1090	-	94	154	10MS-S	97	57	20	55
6	MAPACHE	MEXICO	1043	66	90	154	10MR	112	13	10	46
14	M2A-IRA	MEXICO	987	69	95	157	5MR	90	15	20	45
19	IRA-CAL	MEXICO	953	72	95	156	10MS	100	12	40	44
15	CINNAMON	MEXICO	950	68	94	152	5MR	97	12	10	49
17	IRA(2)	MEXICO	867	69	93	154	10MS	90	17	40	48
18	IA-BULK E2	MEXICO	740	67	95	155	10MS	100	22	25	41
24	TEQUILA (BARLEY)	MEXICO	580	64	90	147	40S	81	15	40	44
GRAND MEAN			1241.2	70.1	97.1	155.9	11.3	105.7	17.0	29.7	46.8
STANDARD ERROR OF GRAND MEAN			42.4					1.0			
COEFFICIENT OF VARIATION AS PC			29.6					0.4			
LSD VARIETY MEANS 5 PC			603.2					14.5			

CORRELATIONS

YIELD	KG/HA											
TEST	WT	0.63										
FLOW	DAYS	0.32	0.10									
MAT	DAYS	0.21	-0.04	0.39								
LEAF	RUST	0.11	0.13	0.38	-0.17							
PLNT	HT	0.40	-0.08	0.21	0.71	-0.24						
LODG	%	-0.19	-0.26	-0.40	-0.03	-0.16	0.15					
SHTR	%	0.14	0.12	0.10	-0.10	0.27	-0.29	-0.28				
1000	G.W.	0.11	-0.04	0.01	0.14	-0.04	0.06	-0.02	0.10			

9TH ITYN

TABLE 2 AFRICA

KENYA

RIFT VALLEY

NJORO

NATIONAL P.B.S.

LATITUDE 000 00'S

DATE PLANTED 6/ 1/78

LONGITUDE 036 00'E

DATE HARVESTED 10/28/78

ELEVATION 2165 M.ABOVE S.L.

AMOUNT OF MOISTURE 620 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

LATE SOWING DATE. GERMINATION POOR.

FIRST THREE WEEKS OF JUNE VERY DRY, RAINY LATER.

HAND WEEDING

LOCAL CHECK: BACUM.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	STEM RUST
12	OCTO BULK - BUSH	MEXICO	5563	90	0	0
6	MAPACHE	MEXICO	5261	83	0	0
8	YOCO (RESEL)	MEXICO	5172	90	0	0
25	LOCAL CHECK		5110	86	0	0
2	NAVOJOA	MEXICO	5088	83	0	0
4	BACUM	MEXICO	4830	82	0	0
1	YOREME TC75	MEXICO	4594	83	0	0
7	RAHUM	MEXICO	4559	83	0	0
3	ARABIAN	MEXICO	4434	90	0	0
15	CINNAMON	MEXICO	4274	83	0	0
21	BEAGLE	MEXICO	4230	89	50S	10S
16	M2A(2)	MEXICO ***	4097	82	0	0
13	MAYA 1-ARM	MEXICO	3959	83	30S	0
23	73UM8518	CANADA	3870	91	0	0
18	IA-BULK E2	MEXICO	3857	80	0	0
9	LINCE	MEXICO	3781	90	0	0
14	M2A-IRA	MEXICO	3586	80	0	0
11	F.S.1897	MEXICO	3550	82	0	0
5	NACQZARI (BREAD WHEAT)	MEXICO	3115	90	30S	50VS
22	DRIRA	MEXICO	3115	90	TMS	0
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2768	78	10MS	0
17	IRA(2)	MEXICO	2333	79	0	70S
24	TEQUILA (BARLEY)	MEXICO	2119	83	0	10MS
19	IRA-CAL	MEXICO	1884	82	0	90VS
20	SIETE CERROS (BREAD WHEAT)	MEXICO	471	90	50S	5MS

GRAND MEAN 3824.8 84.9 6.8 9.3
 STANDARD ERROR OF GRAND MEAN 83.7
 COEFFICIENT OF VARIATION AS PC 18.9
 LSD VARIETY MEANS 5 PC 1189.4

CORRELATIONS
 YIELD KG/HA
 FLOW DAYS 0.09
 STRP RT.L -0.39 0.33
 STEM RUST -0.49 -0.15 0.07

9TH ITYN

TABLE 3 AFRICA

LIBYA

TRIPOLI

SIDI-MISRY

ABD EL MATTY ARAFA

LATITUDE 032 50'N

LONGITUDE 013 05'E

ELEVATION 0010 M.ABOVE S.L.

DATE PLANTED

11/ 6/77

DATE HARVESTED

4/15/78

AMOUNT OF MOISTURE

750 MM

NITROGEN

APPLIED

PHOSPHORUS

APPLIED

POTASSIUM

—

EARLY SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK: SIDI MISRY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
3	ARABIAN	MEXICO	3067	69	82	146	88	49
21	BEAGLE	MEXICO	2981	64	90	138	108	50
8	YOCO(RESEL)	MEXICO	2705	71	85	147	83	44
5	NACUZARI (BREAD WHEAT)	MEXICO	2495	80	85	143	76	44
9	LINCE	MEXICO	2476	67	77	147	83	47
2	NAVOJOA	MEXICO	2419	73	80	147	80	49
7	RAHUM	MEXICO	2409	70	80	144	90	47
13	MAYA I-ARM	MEXICO	2362	70	77	145	82	45
6	MAPACHE	MEXICO	2305	67	85	144	87	47
15	CINNAMON	MEXICO	2286	69	80	144	88	51
12	OCTO BULK - BUSH	MEXICO	2267	70	92	146	91	48
23	73UM8518	CANADA ***	2171	62	94	150	95	44
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2143	77	78	146	72	57
11	F.S.1897	MEXICO	2138	69	75	145	92	48
14	M2A-IRA	MEXICO	2124	69	74	150	79	45
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2105	75	88	149	75	41
22	DRIRA	MEXICO	2086	62	92	138	102	54
1	YOREME TC75	MEXICO	1948	69	78	144	88	50
18	IA-BULK E2	MEXICO	1876	70	74	145	85	47
25	LOCAL CHECK		1790	76	87	142	73	42
4	BACUM	MEXICO	1762	72	80	145	83	44
16	M2A(2)	MEXICO	1609	68	78	144	74	49
17	IRA(2)	MEXICO	1609	66	71	142	70	41
24	TEQUILA (BARLEY)	MEXICO	1590	51	92	136	65	38
19	IRA-CAL	MEXICO	1267	70	80	149	71	38

GRAND MEAN	2159.5	69.1	82.1	144.7	83.2	46.2
STANDARD ERROR OF GRAND MEAN	50.7	0.3			0.5	0.4
COEFFICIENT OF VARIATION AS PC	20.3	3.4			5.2	7.6
LSD VARIETY MEANS 5 PC	721.1	3.8			7.2	5.8

CORRELATIONS

YIELD KG/HA						
TEST WT	0.15					
FLOW DAYS	0.19	-0.31				
MAT DAYS	0.04	0.48	-0.29			
PLNT HT	0.58	-0.20	0.31	-0.14		
1000 G.W.	0.43	0.16	-0.09	-0.10	0.53	

9TH ITYN

TABLE 4 AFRICA

SOUTH AFRICA

CAPE PROVINCE

MARIENDAL E.S.

R.DE V.PIENAAR ET AL

LATITUDE 033 50'S

LONGITUDE 018 50'E

ELEVATION 0152 M.ABOVE S.L.

DATE PLANTED 5/ 2/78

DATE HARVESTED 11/24/78

AMOUNT OF MOISTURE 404 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: A1327

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	SEPT TRIT
21	BEAGLE	MEXICO	4939	65	92	113	44
25	LOCAL CHECK		4737	68	89	88	44
13	MAYA I-ARM	MEXICO	4430	69	86	93	33
12	OCTO BULK - BUSH	MEXICO	4285	70	100	105	44
3	ARABIAN	MEXICO	4132	67	89	93	44
18	IA-BULK E2	MEXICO ***	3641	67	84	83	44
11	F.S.1897	MEXICO	3619	69	85	95	44
15	CINNAMON	MEXICO	3616	67	86	93	56
4	BACUM	MEXICO	3512	68	84	87	56
8	YOCO(RESEL)	MEXICO	3463	71	94	92	56
2	NAVOJOA	MEXICO	3459	70	88	84	44
9	LINCE	MEXICO	3397	67	86	93	56
23	73UM8518	CANADA	3380	64	108	107	33
1	YOREME TC75	MEXICO	3354	68	89	100	56
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3335	75	91	84	56
6	MAPACHE	MEXICO	3260	64	85	93	33
7	RAHUM	MEXICO	3074	70	85	93	44
14	M2A-IRA	MEXICO	3069	68	84	81	44
22	DRIRA	MEXICO	3045	63	84	109	44
16	M2A(2)	MEXICO	3009	62	86	83	56
19	IRA-CAL	MEXICO	2722	68	86	82	67
17	IRA(2)	MEXICO	2287	65	84	103	56
5	NACQZARI (BREAD WHEAT)	MEXICO	1897	76	86	84	56
24	TEQUILA (BARLEY)	MEXICO	1857	61	109	70	56
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1183	72	83	83	44

GRAND MEAN 3308.0 67.8 88.9 91.6 48.4
STANDARD ERROR OF GRAND MEAN 68.6
COEFFICIENT OF VARIATION AS PC 18.0
LSD VARIETY MEANS 5 PC 976.0

YIELD KG/HA		CORRELATIONS			
TEST	WT	-0.08			
FLOW	DAYS	0.06	-0.25		
PLNT	HT	0.46	-0.20	0.08	
SEPT	TRIT	-0.36	0.14	-0.09	-0.35

BETHLEHEM

SMALL GRAIN CENTRE

LATITUDE 028 10'S

DATE PLANTED 9/15/77

NITROGEN

APPLIED

LONGITUDE 028 18'E

DATE HARVESTED 1/11/78

PHOSPHORUS

APPLIED

ELEVATION 1631 M.ABOVE S.L. AMOUNT OF MOISTURE 393 MM

POTASSIUM

--

NORMAL SOWING TIME. DRY CONDITIONS OF SOIL AT SOWING. GOOD GERMINATION.
 DRY AND HOT WHEATER CONDITIONS DURING NOVEMBER-DECEMBER CAUSED REDUCTION
 IN YIELD. NO INSECT, WEED OR PEST PROBLEMS.
 LOCAL CHECK: NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %
7	RAHUM	MEXICO	2610	57	61	105	2S	0	91	2
13	MAYA I-ARM	MEXICO	2415	56	60	105	0	TS	81	2
6	MAPACHE	MEXICO	2402	54	60	102	0	0	88	0
23	73UM8518	CANADA	2350	56	60	113	TMS	0	98	3
14	M2A-IRA	MEXICO	2300	57	57	104	TS	0	82	5
25	LOCAL CHECK		2139	75	78	114	0	0	110	10
21	BEAGLE	MEXICO	2131	50	63	113	TMS	0	104	2
11	F.S.1897	MEXICO	2122	57	60	111	20S	10S	90	2
9	LINCE	MEXICO	1957	54	60	103	20S	0	83	0
12	OCTO BULK - BUSH	MEXICO ***	1926	57	62	105	TS	0	79	0
1	YOREME TC75	MEXICO	1861	55	60	102	10S	0	79	3
5	NACUZARI (BREAD WHEAT)	MEXICO	1810	63	61	97	TS	50S	71	3
24	TEQUILA (BARLEY)	MEXICO	1815	53	62	92	---	40S	52	10
19	IRA-CAL	MEXICO	1698	50	58	97	---	50S	70	2
18	IA-BULK E2	MEXICO	1625	55	55	104	TMS	0	76	0
2	NAVOJOA	MEXICO	1616	57	60	107	5S	0	72	2
4	BACUM	MEXICO	1594	55	57	100	40S	0	80	5
15	CINNAMON	MEXICO	1500	54	61	109	20S	0	79	0
3	ARABIAN	MEXICO	1572	56	60	100	TS	5S	74	0
8	YOCO (RESEL)	MEXICO	1547	55	62	109	40S	0	73	3
16	M2A(2)	MEXICO	1404	52	61	100	TS	10S	72	0
17	IRA(2)	MEXICO	1448	50	58	96	---	15S	77	2
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1271	61	64	99	---	60S	68	2
22	DRIRA	MEXICO	1060	56	65	114	5MS	0	94	5
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	816	61	62	101	---	0	63	0
GRAND MEAN			1806.9	56.6	61.4	104.5	8.4	9.6	80.9	2.8
STANDARD ERROR OF GRAND MEAN			39.9	0.2					0.5	
COEFFICIENT OF VARIATION AS PC			19.1	2.9					5.0	
LSD VARIETY MEANS 5 PC			567.5	2.7					6.7	

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %
	0.09						
	0.10	0.74					
	0.21	0.37	0.50				
	-0.30	-0.24	-0.24	-0.05			
	-0.22	-0.01	-0.04	-0.61	-0.00		
	0.50	0.44	0.57	0.74	-0.21	-0.44	
	-0.13	0.48	0.49	-0.06	0.05	0.10	0.03

9TH ITYN

TABLE 6 AFRICA

TUNISIA

TUNIS

BEJA

ACPP/INRAT

LATITUDE 036 44'N

DATE PLANTED 11/17/77

NITROGEN APPLIED

LONGITUDE 009 08'E

DATE HARVESTED 6/16/78

PHOSPHORUS APPLIED

ELEVATION 0150 M.ABOVE S.L.

AMOUNT OF MOISTURE 589 MM

POTASSIUM —

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION % NOT REPORTED.
 WEATHER NORMAL EXCEPT FOR DRY SPELL FROM DECEMBER TO JANUARY.
 SOME BIRD DAMAGE ON THE EARLY CULTIVARS.

LOCAL CHECK: DOUGGA 74

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
22	DRIRA	MEXICO	7448	88	115
5	NACUZARI (BREAD WHEAT)	MEXICO	7387	87	95
4	BACUM	MEXICO	7373	75	90
8	YOCO(RESEL)	MEXICO	7304	81	95
6	MAPACHE	MEXICO	7283	81	100
25	LOCAL CHECK		7220	91	90
2	NAVOJOA	MEXICO	7133	81	95
12	OCTO BULK - BUSH	MEXICO	7085	87	110
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	7069	84	95
21	BEAGLE	MEXICO	7048	83	110
9	LINCE	MEXICO	7016	77	95
3	ARABIAN	MEXICO	6893	81	95
19	IRA-CAL	MEXICO	6681	72	85
14	M2A-IRA	MEXICO	6672	77	90
7	RAHUM	MEXICO	6576	76	95
1	YOREME TC75	MEXICO	6520	81	100
13	MAYA I-ARM	MEXICO	6443	80	90
20	SIETE CERROS (BREAD WHEAT)	MEXICO	6441	90	100
16	M2A(2)	MEXICO ***	6408	81	90
23	73UM8518	CANADA	6315	94	115
18	IA-BULK E2	MEXICO	6027	72	85
11	F.S.1897	MEXICO	6013	81	110
15	CINNAMON	MEXICO	6011	80	90
17	IRA(2)	MEXICO	5357	80	90
24	TEQUILA (BARLEY)	MEXICO	2387	87	80

GRAND MEAN 6564.4 81.9 96.2
 STANDARD ERROR OF GRAND MEAN 58.4
 COEFFICIENT OF VARIATION AS PC 7.7
 LSD VARIETY MEANS 5 PC 830.3

CORRELATIONS

YIELD KG/HA
 FLOW DAYS -0.06
 PLNT HT 0.40 0.51

9TH ITYN

TABLE 7 ASIA

BANGLADESH

ISMURDI

ISHURDI

CEREAL STAFF

LATITUDE 024 02'N

DATE PLANTED 11/19/77

NITROGEN

APPLIED

LONGITUDE 089 00'E

DATE HARVESTED 3/24/78

PHOSPHORUS

APPLIED

ELEVATION 0007 M.ABOVE S.L.

AMOUNT OF MOISTURE 529 MM

POTASSIUM

APPLIED

GERMINATION & NOT REPORTED.

WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: SOMALIKA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
11	F.S.1897	MEXICO	4555	68	121	0	112
25	LOCAL CHECK		4555	57	112	30S	95
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4305	69	115	80S	83
15	CINNAMON	MEXICO	4277	70	120	20MR	96
23	73UM8518	CANADA	4055	84	124	0	110
5	NACUZARI (BREAD WHEAT)	MEXICO	4000	67	117	50S	75
24	TEQUILA (BARLEY)	MEXICO	3833	81	119	0	80
16	M2A(2)	MEXICO	3765	69	120	5MR	87
13	MAYA I-ARM	MEXICO	3750	70	121	TMR	95
22	DRIRA	MEXICO	3611	81	122	0	122
21	BEAGLE	MEXICO	3555	82	122	0	119
12	OCTO BULK - BUSH	MEXICO	3333	81	123	TMR	101
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3333	68	117	20MR	82
7	RAHUM	MEXICO	3222	67	121	TMR	87
6	MAPACHE	MEXICO	3083	70	121	5MR	92
2	NAVOJOA	MEXICO	3055	72	120	20MS	85
9	LINCE	MEXICO	3055	70	122	5MR	86
19	IRA-CAL	MEXICO	2972	70	122	0	85
8	YOCO(RESEL)	MEXICO	2861	72	122	30MS	82
3	ARABIAN	MEXICO	2849	72	122	20MS	94
17	IRA(2)	MEXICO	2805	68	120	5MR	82
14	M2A-IRA	MEXICO	2722	67	119	0	93
4	BACUM	MEXICO	2555	69	118	10MS	92
18	IA-BULK E2	MEXICO ***	2333	70	122	10MS	83
1	YOREME TC75	MEXICO	1611	70	120	80S	83

GRAND MEAN 3362.0 71.4 120.2 12.2 92.1
 STANDARD ERROR OF GRAND MEAN 123.3
 COEFFICIENT OF VARIATION AS PC 31.0
 LSD VARIETY MEANS 5 PC 1755.4

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	0.00			
MAT	DAYS	-0.32	0.65		
LEAF	RUST	-0.10	-0.30	-0.50	
PLNT	HT	0.34	0.49	0.36	-0.41

9TH ITYN

TABLE 8 ASIA

INDIA

DELHI

NEW DELHI IARS
CEREAL STAFF

LATITUDE 028 38'N

DATE PLANTED 11/25/77

NITROGEN APPLIED

LONGITUDE 077 16'E

DATE HARVESTED 4/27/78

PHOSPHORUS APPLIED

ELEVATION 0022 M.ABOVE S.L. AMOUNT OF MOISTURE 42 MM

POTASSIUM APPLIED

SOWING DATE NOT REPORTED. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: HD-2204

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
17	IRA(2)	MEXICO	7317	85	140	85S	102	36
5	NACQZARI (BREAD WHEAT)	MEXICO	6883	89	137	15S	97	34
9	LINCE	MEXICO	6738	92	142	25S	112	40
4	BACUM	MEXICO	6448	86	140	TR	107	37
25	LOCAL CHECK		6231	81	136	---	92	42
13	MAYA I-ARM	MEXICO	6158	93	143	TS	100	34
10	MEXICALI 75 (DURUM WHEAT)	MEXICO ***	5941	88	137	70S	95	52
18	IA-BULK E2	MEXICO	5796	87	141	40S	109	36
19	IRA-CAL	MEXICO	5651	84	136	---	103	35
11	F.S.1897	MEXICO	5579	91	140	TR	122	41
7	RAHUM	MEXICO	5579	90	141	10S	112	40
1	YOREME TC75	MEXICO	5506	90	140	80S	103	38
16	M2A(2)	MEXICO	5506	93	140	---	103	40
14	M2A-IRA	MEXICO	5361	87	142	25S	110	40
21	BEAGLE	MEXICO	5289	95	148	40S	133	44
6	MAPACHE	MEXICO	5216	88	138	TR	113	40
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4927	96	141	100S	100	34
15	CINNAMON	MEXICO	4782	93	142	20S	109	37
8	YOCO(RESEL)	MEXICO	4782	98	144	25S	104	36
2	NAVOJOA	MEXICO	4564	91	139	50S	103	37
3	ARABIAN	MEXICO	4564	93	142	30S	104	36
12	OCTO BULK - BUSH	MEXICO	4492	102	141	15S	103	32
22	DRIRA	MEXICO	4202	101	149	30S	126	38
24	TEQUILA (BARLEY)	MEXICO	4057	92	136	TS	98	44
23	73UM8518	CANADA	3840	103	150	TR	117	33
	GRAND MEAN		5416.4	91.5	141.0	31.6	107.1	38.2
	STANDARD ERROR OF GRAND MEAN		80.4				0.4	0.5
	COEFFICIENT OF VARIATION AS PC		12.9				3.5	11.5
	LSD VARIETY MEANS 5 PC		1143.0				6.2	7.2

YIELD KG/HA		CORRELATIONS				
FLOW	DAYS	-0.68				
MAT	DAYS	-0.40	0.72			
LEAF	RUST	0.20	-0.03	-0.04		
PLNT	HT	-0.27	0.40	0.72	-0.28	
1000	G.W.	0.10	-0.32	-0.25	0.04	0.05

9TH ITYN

TABLE 9

ASIA

INDIA

KARNATAKA

DHARWAR

LATITUDE 15 42'N DATE PLANTED 12/31/77
 LONGITUDE 76 47'E DATE HARVESTED 4/7/78
 ELEVATION 638 M.ABOVE S.L. AMOUNT OF MOISTURE 2 MM

NITROGEN APPLIED
 PHOSPHORUS APPLIED
 POTASSIUM APPLIED

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
7	RAHUM	MEXICO	1275	87	40S	81	66
19	IRA-CAL	MEXICO	1095	85	30S	71	64
5	NACQZARI (BREAD WHEAT)	MEXICO	1084	85	10S	71	68
16	M2A(2)	MEXICO	1075	85	70S	70	67
9	LINCE	MEXICO	1011	85	70S	72	63
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1005	85	40S	68	67
18	IA-BULK E2	MEXICO	952	85	90S	77	64
6	MAPACHE	MEXICO	910	85	30S	88	71
11	F.S.1897	MEXICO	871	87	70S	71	63
14	M2A-IRA	MEXICO	861	85	80S	73	74
13	MAYA I-ARM	MEXICO	852	85	70S	78	65
12	OCTO BULK - BUSH	MEXICO	848	87	70S	76	68
15	CINNAMON	MEXICO	820	85	80S	82	74
3	ARABIAN	MEXICO	795	96	40S	83	67
4	BACUM	MEXICO	788	85	30S	73	69
2	NAVOJOA	MEXICO	786	85	70S	64	63
22	DRIRA	MEXICO	720	92	20S	89	75
21	BEAGLE	MEXICO	718	92	20S	90	72
17	IRA(2)	MEXICO	703	85	70S	70	64
8	YOCO(RESEL)	MEXICO ***	666	85	70S	69	57
25	LOCAL CHECK		650	85	10S	79	80
1	YOREME TC75	MEXICO	642	85	60S	64	67
23	73UM8518	CANADA	600	96	0	87	66
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	559	85	40S	62	72
24	TEQUILA (BARLEY)	MEXICO	455	92	0	47	76

GRAND MEAN 829.6 87.0 48.0 74.1 68.1
 STANDARD ERROR OF GRAND MEAN 33.5 0.2 0.2
 COEFFICIENT OF VARIATION AS PC 35.0 1.8 11.5
 LSD VARIETY MEANS 5 PC 476.6 2.2 12.8

CORRELATIONS
 YIELD KG/HA
 MAT DAYS -0.37
 LEAF RUST 0.25 -0.52
 PLNT HT 0.22 0.32 -0.11
 1000 G.W. -0.34 0.19 -0.50 0.13

9TH ITYN

TABLE 10 ASIA

INDIA

MADHYA PRADESH

INDORE

CEREAL STAFF

LATITUDE 822 37'N

DATE PLANTED 11/--/77

LONGITUDE 875 50'E

DATE HARVESTED 4/--/78

ELEVATION 8600 M.ABOVE S.L. AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.

NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: KALYANSONA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
5	NACUZARI (BREAD WHEAT)	MEXICO	4758	75	121	98	32
25	LOCAL CHECK		4358	71	122	94	39
28	SIETE CERROS (BREAD WHEAT)	MEXICO	4250	80	122	88	45
14	M2A-IRA	MEXICO	4100	72	126	98	44
6	MAPACHE	MEXICO ***	3775	74	125	105	41
7	RAHUM	MEXICO	3692	76	127	108	37
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3567	70	123	88	51
13	MAYA I-ARM	MEXICO	3517	77	129	97	36
17	IRA(2)	MEXICO	3500	69	124	94	38
3	ARABIAN	MEXICO	3475	80	129	100	45
18	IA-BULK E2	MEXICO	3467	71	124	97	33
9	LINCE	MEXICO	3458	80	131	99	39
11	F.S.1897	MEXICO	3425	77	130	106	43
21	BEAGLE	MEXICO	3417	81	135	123	43
2	NAVOJOA	MEXICO	3375	75	125	90	39
1	YOREME TC75	MEXICO	3283	80	127	84	46
23	73UM8518	CANADA	3267	86	137	116	35
16	M2A(2)	MEXICO	3192	78	127	94	32
12	OCTO BULK - BUSH	MEXICO	3167	86	131	95	41
15	CINNAMON	MEXICO	3100	79	129	98	37
8	YOCO(RESEL)	MEXICO	3100	84	139	88	38
4	BACUM	MEXICO	3050	69	123	104	35
19	IRA-CAL	MEXICO	2892	71	116	96	31
22	DRIRA	MEXICO	2850	87	133	107	46
24	TEQUILA (BARLEY)	MEXICO	2700	77	118	83	34

GRAND MEAN 3469.3 77.0 126.9 97.7 39.2
 STANDARD ERROR OF GRAND MEAN 51.8
 COEFFICIENT OF VARIATION AS PC 12.9
 LSD VARIETY MEANS 5 PC 736.1

YIELD KG/HA		CORRELATIONS			
FLOW	DAYS	-0.30			
MAT	DAYS	-0.24	0.74		
PLNT	HT	-0.09	0.23	0.50	
1000	G.W.	0.12	0.20	0.24	0.02

9TH ITYN

TABLE 11 ASIA

INDIA

PUNJAB

LUDHIANA
PUNJAB AGR UNIV

LATITUDE 030 56'N

LONGITUDE 075 52'E

ELEVATION 0247 M.ABOVE S.L.

DATE PLANTED 11/24/77

DATE HARVESTED 4/28/78

AMOUNT OF MOISTURE 396 MM

NITROGEN

PHOSPHORUS

POTASSIUM

APPLIED

APPLIED

APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: WL 711

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
19	IRA-CAL	MEXICO	7100	91	141	5S	121	36
5	NACUZARI (BREAD WHEAT)	MEXICO	6424	94	140	40S	106	36
7	RAHUM	MEXICO	6327	95	144	10S	132	40
11	F.S.1897	MEXICO	5989	95	145	TR	137	40
25	LOCAL CHECK		5989	95	142	0	106	39
4	BACUM	MEXICO	5941	91	142	15S	121	34
2	NAVOJOA	MEXICO	5844	96	145	20S	115	34
12	OCTO BULK - BUSH	MEXICO	5796	104	147	20S	123	36
17	IRA(2)	MEXICO ***	5410	90	143	25S	129	36
13	MAYA I-ARM	MEXICO	5361	95	144	TR	111	37
3	ARABIAN	MEXICO	5361	96	146	20S	116	38
9	LINCE	MEXICO	5313	95	144	5S	122	38
18	IA-BULK E2	MEXICO	5313	90	144	20S	126	40
6	MAPACHE	MEXICO	5265	95	144	5S	123	32
14	M2A-IRA	MEXICO	5265	91	145	0	108	41
8	YOCO(RESEL)	MEXICO	5168	101	147	20S	110	32
1	YOREME TC75	MEXICO	5168	96	145	60S	109	40
21	BEAGLE	MEXICO	4927	99	147	25S	150	36
22	DRIRA	MEXICO	4782	103	150	10S	149	42
16	M2A(2)	MEXICO	4782	96	144	5S	101	30
15	CINNAMON	MEXICO	4444	96	145	15S	100	35
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	4444	92	142	20S	97	44
23	73UM8518	CANADA	4202	108	150	TR	120	26
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4202	101	145	100S	110	27
24	TEQUILA (BARLEY)	MEXICO	3864	101	140	---	104	32

GRAND MEAN 5307.2 96.2 144.5 16.3 118.5 36.4
 STANDARD ERROR OF GRAND MEAN 99.4
 COEFFICIENT OF VARIATION AS PC 16.2
 LSD VARIETY MEANS 5 PC 1413.8

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
	-0.49				
	-0.36	0.70			
	-0.23	0.05	-0.17		
	0.19	0.23	0.57	-0.28	
	0.29	-0.52	-0.15	-0.30	0.03

KITAMI

S. OZEKI ET AL

LATITUDE 043 47'N

DATE PLANTED 5/ 6/78

NITROGEN APPLIED

LONGITUDE 143 42'E

DATE HARVESTED 8/16/78

PHOSPHORUS APPLIED

ELEVATION 0196 M.ABOVE S.L.

AMOUNT OF MOISTURE 323 MM

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.
24	TEQUILA (BARLEY)	MEXICO	3705	56	55	88	8	72	41
5	NACUZARI (BREAD WHEAT)	MEXICO	3494	71	60	88	47	87	30
6	MAPACHE	MEXICO	3394	59	59	89	5	106	32
22	DRIRA	MEXICO	3311	56	62	95	5	115	33
13	MAYA I-ARM	MEXICO	3261	60	58	91	30	93	28
19	IRA-CAL	MEXICO	3233	63	55	89	15	96	30
7	RAHUM	MEXICO	3122	59	58	91	5	102	30
4	BACUM	MEXICO	3111	63	56	89	7	105	31
11	P.S.1897	MEXICO	3077	61	58	93	20	109	31
12	OCTO BULK - BUSH	MEXICO	2955	62	59	91	23	98	32
16	M2A(2)	MEXICO	2933	56	58	90	27	96	28
3	ARABIAN	MEXICO	2855	57	58	93	20	94	30
21	BEAGLE	MEXICO ***	2822	60	61	94	12	120	33
2	NAVOJOA	MEXICO	2744	57	58	91	33	94	28
25	LOCAL CHECK		2722	74	61	89	60	111	28
14	M2A-IRA	MEXICO	2683	56	56	91	17	95	30
9	LINCE	MEXICO	2572	55	59	92	37	95	28
17	IRA(2)	MEXICO	2450	54	56	89	47	93	29
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2400	72	63	89	67	85	26
23	73UM8518	CANADA	2366	56	62	94	20	105	29
8	YOCO(RESEL)	MEXICO	2328	57	62	92	53	96	26
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2250	67	60	90	30	84	32
18	IA-BULK E2	MEXICO	2155	57	56	90	37	92	27
15	CINNAMON	MEXICO	2128	55	58	91	33	98	30
1	YOREME TC75	MEXICO	2100	57	60	92	47	96	29

GRAND MEAN	2806.8	60.0	58.7	90.9	27.9	97.5	30.0
STANDARD ERROR OF GRAND MEAN	50.3					0.2	0.1
COEFFICIENT OF VARIATION AS PC	15.5					2.1	4.1
LSD VARIETY MEANS 5 PC	715.3					3.3	2.0

YIELD KG/HA		CORRELATIONS							
TEST	WT	0.13							
FLOW	DAYS	-0.27	0.34						
MAT	DAYS	-0.22	-0.44	0.42					
LEAF	RUST	-0.59	0.42	0.41	-0.23				
PLNT	HT	0.03	-0.04	0.33	0.58	-0.25			
1000	G.W.	0.57	-0.13	-0.29	-0.06	-0.69	-0.11		

9TH ITYN

TABLE 13 ASIA

NEPAL

DHANKUTA

PAKRIBAS A.C.

R.J. ISHERWOOD

LATITUDE 827 05'N

DATE PLANTED 9/27/77

NITROGEN

APPLIED

LONGITUDE 887 28'E

DATE HARVESTED 4/ 1/78

PHOSPHORUS

ELEVATION 1933 M.ABOVE S.L.

AMOUNT OF MOISTURE 312 MM

POTASSIUM

EARLY SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. SOME DAMAGE BY ROOT CUTTING INSECTS.

RR 21

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	SHTR %	1000 G.W.	FERT %
24	TEQUILA (BARLEY)	MEXICO	3994	84	183	66	0	45	92
6	MAPACHE	MEXICO	3719	93	189	125	11	60	85
14	M2A-IRA	MEXICO	3500	80	187	108	10	54	85
7	RAHUM	MEXICO	3044	96	187	119	12	59	96
4	BACUM	MEXICO ***	2622	83	184	111	4	52	80
3	ARABIAN	MEXICO	2528	96	189	114	12	56	94
9	LINCE	MEXICO	2503	97	187	113	12	58	75
22	DRIRA	MEXICO	2447	126	203	141	0	62	90
13	MAYA I-ARM	MEXICO	2338	88	189	104	10	53	85
21	BEAGLE	MEXICO	2276	124	194	142	8	55	85
5	NACCOZARI (BREAD WHEAT)	MEXICO	2242	84	179	88	0	42	92
19	IRA-CAL	MEXICO	2193	83	181	105	0	37	94
11	F.S.1897	MEXICO	2191	95	192	131	10	56	75
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1877	92	187	103	10	47	40
25	LOCAL CHECK		1832	77	188	118	0	51	85
17	IRA(2)	MEXICO	1808	75	178	100	0	52	75
16	M2A(2)	MEXICO	1582	83	176	102	0	54	75
23	73UM8518	CANADA	1581	131	201	116	2	60	40
18	IA-BULK E2	MEXICO	1559	83	184	141	5	51	90
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1357	83	184	91	4	56	95
1	YOEME TC75	MEXICO	976	86	190	115	10	59	50
2	NAVOJOA	MEXICO	967	91	189	112	11	59	50
8	YOCO(RESEL)	MEXICO	761	105	190	110	17	55	20
15	CINNAMON	MEXICO	601	95	187	110	11	58	15
12	OCTO BULK - BUSH	MEXICO	504	121	191	124	10	57	15

GRAND MEAN	2040.1	94.1	187.6	112.3	7.3	53.9	71.1
STANDARD ERROR OF GRAND MEAN	68.1			1.9		0.3	
COEFFICIENT OF VARIATION AS PC	28.9			14.5		5.6	
LSD VARIETY MEANS 5 PC	968.7			26.7		4.9	

YIELD KG/HA		CORRELATIONS						
FLOW	DAYS	-0.19						
MAT	DAYS	-0.07	0.81					
PLNT	HT	-0.17	0.52	0.60				
SHTR	%	-0.21	0.13	0.25	0.21			
1000	G.W.	-0.19	0.49	0.62	0.52	0.39		
FERT	%	0.71	-0.37	-0.26	-0.06	-0.49	-0.29	

9TH ITYM

TABLE 14 ASIA

NEPAL

JANAKPUR ANCHA

KABHRE AGR. FM.

M.L. SHAH

LATITUDE 26 00'N

DATE PLANTED 11/24/77

LONGITUDE 86 00'E

DATE HARVESTED --/--/--

ELEVATION 1700 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NORMAL SEASON EXCEPT FOR OCCASIONAL HAIL AND SNOW.
SLIGHT DISEASE INCIDENCE. INSECT DAMAGE.
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
6	MAPACHE	MEXICO	3868	109	173	87
7	RAHUM	MEXICO	3773	109	173	96
9	LINCE	MEXICO	3673	109	173	85
4	BACUM	MEXICO	3553	106	173	90
14	M2A-IRA	MEXICO	3397	106	179	80
19	IRA-CAL	MEXICO	3363	106	172	85
15	CINNAMON	MEXICO	3353	109	173	86
22	DRIRA	MEXICO	3203	130	186	110
8	YOCO(RESEL)	MEXICO	3173	118	179	79
13	MAYA I-ARM	MEXICO	3055	106	179	76
17	IRA(2)	MEXICO	2960	101	169	82
1	YORENE TC75	MEXICO	2945	112	179	83
3	ARABIAN	MEXICO	2890	119	179	82
12	OCTO BULK - BUSH	MEXICO	2850	124	179	86
23	7JUM8518	CANADA	2790	130	186	91
21	BEAGLE	MEXICO ***	2615	118	179	105
11	P.S.1897	MEXICO	2500	106	173	99
16	M2A(2)	MEXICO	2468	112	173	82
25	LOCAL CHECK		2375	129	173	100
2	NAVOJOA	MEXICO	2323	118	179	81
18	IA-BULK E2	MEXICO	2137	106	172	77
5	NACUZARI (BREAD WHEAT)	MEXICO	1997	118	173	68
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1457	130	179	52
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	343	114	179	60
24	TEQUILA (BARLEY)	MEXICO	-	-	-	27

GRAND MEAN 2790.1 114.4 176.3 81.9
STANDARD ERROR OF GRAND MEAN 66.3 8.7
COEFFICIENT OF VARIATION AS PC 20.2 7.5
LSD VARIETY MEANS 5 PC 924.5 10.1

CORRELATIONS
YIELD KG/HA
FLOW DAYS -0.33
MAT DAYS -0.16 0.66
PLNT HT 0.42 0.05 0.05

9TH ITYN

TABLE 15 ASIA

PAKISTAN

PUNJAB

LYALLPUR

N.I.A.B.

LATITUDE 031 30'N

DATE PLANTED 11/14/77

NITROGEN --

LONGITUDE 073 10'E

DATE HARVESTED 5/ 2/78

PHOSPHORUS --

ELEVATION 0213 M.ABOVE S.L. AMOUNT OF MOISTURE 484 MM

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

SEVERE FROSTS IN JANUARY AND FIRST WEEK OF FEBRUARY

NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: CHENAB 70

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
19	IRA-CAL	MEXICO	5155	96	152	0	110
16	M2A(2)	MEXICO	4522	104	156	10R	115
12	OCTO BULK - BUSH	MEXICO	4355	115	150	25MS	124
3	ARABIAN	MEXICO	4344	101	154	25MR-MS	120
2	NAVOJOA	MEXICO	4255	100	152	25MS	115
4	BACUM	MEXICO ***	4211	100	151	10R	115
17	IRA(2)	MEXICO	4166	99	153	0	110
1	YOREME TC75	MEXICO	4166	101	153	40S	110
9	LINCE	MEXICO	4144	104	157	10MS	124
14	M2A-IRA	MEXICO	4122	101	157	0	115
5	NACUZARI (BREAD WHEAT)	MEXICO	4100	107	154	25MS	95
24	TEQUILA (BARLEY)	MEXICO	4044	109	152	0	102
8	YOCO(RESEL)	MEXICO	3833	105	156	25S	113
13	MAYA I-ARM	MEXICO	3811	103	155	5MR	110
18	IA-BULK E2	MEXICO	3722	99	154	10R	113
7	RAHUM	MEXICO	3711	101	153	0-5R	120
11	F.S.1897	MEXICO	3700	103	156	0	130
25	LOCAL CHECK		3533	108	155	65S	120
21	BEAGLE	MEXICO	3389	113	-	10R	140
23	73UM8510	CANADA	3200	118	-	0	120
6	MAPACHE	MEXICO	3189	102	155	10R	125
15	CINNAMON	MEXICO	3166	107	155	25MS	110
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2822	115	-	65S	107
22	DRIRA	MEXICO	2789	114	-	5R	139
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2666	101	156	40MS	95

GRAND MEAN 3804.5 105.0 154.1 13.7 116.2
 STANDARD ERROR OF GRAND MEAN 57.5
 COEFFICIENT OF VARIATION AS PC 13.1
 LSD VARIETY MEANS 5 PC 810.0

YIELD KG/HA		CORRELATIONS				
FLOW	DAYS	-0.49				
MAT	DAYS	-0.38	-0.07			
LEAF	RUST	-0.29	0.23	0.05		
PLNT	HT	-0.12	0.29	0.04	-0.25	

9TH ITYM

TABLE 16 ASIA

PAKISTAN

SIND

TANDOJAM

A.H.NATALI

LATITUDE 025 02'N

DATE PLANTED 11/ 1/77

LONGITUDE 063 38'E

DATE HARVESTED --/--/--

ELEVATION 0019 M.ABOVE S.L.

AMOUNT OF MOISTURE 457 MM

NITROGEN
PHOSPHORUS
POTASSIUMAPPLIED
APPLIED
--

GERMINATION GOOD. DRY WEATHER THROUGHOUT THE TRIAL

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: PAK 70

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
23	73UM8518	CANADA	4069	72	138	105	45
15	CINNAMON	MEXICO	3734	62	119	90	53
21	BEAGLE	MEXICO	3558	68	132	116	55
11	F.S.1897	MEXICO	3311	60	121	82	49
25	LOCAL CHECK		3311	70	134	95	46
12	OCTO BULK - BUSH	MEXICO	3269	60	120	95	44
7	RAHUM	MEXICO	3257	61	118	85	46
3	ARABIAN	MEXICO	3229	61	126	82	47
22	DRIRA	MEXICO	3148	71	134	110	50
2	NAVOJOA	MEXICO	3103	61	124	78	45
8	YOCO(RESEL)	MEXICO	3062	60	118	70	50
13	MAYA I-ARM	MEXICO	3004	62	123	68	44
9	LINCE	MEXICO	2935	61	121	83	57
6	MAPACHE	MEXICO ***	2887	62	120	72	50
1	YOREME TC75	MEXICO	2619	62	134	86	42
16	M2A(2)	MEXICO	2604	62	120	81	45
18	IA-BULK E2	MEXICO	2431	63	118	70	42
24	TEQUILA (BARLEY)	MEXICO	2349	83	130	70	48
4	BACUM	MEXICO	2262	61	120	86	48
5	NACUZARI (BREAD WHEAT)	MEXICO	2055	58	119	68	45
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2053	63	123	76	42
19	IRA-CAL	MEXICO	1926	64	119	75	49
17	IRA(2)	MEXICO	1886	61	121	65	40
14	M2A-IRA	MEXICO	1744	61	120	75	36
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1464	63	120	68	44

GRAND MEAN 2770.8 63.7 123.7 82.0 46.5
 STANDARD ERROR OF GRAND MEAN 67.3
 COEFFICIENT OF VARIATION AS PC 21.0
 LSD VARIETY MEANS 5 PC 958.3

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
	0.16			
	0.42	0.68		
	0.67	0.32	0.64	
	0.50	0.16	0.07	0.40

9TH ITYM

TABLE 17 ASIA

PHILIPPINES

LUZON

LOS BANOS (UP)

T. MASASO ET AL

LATITUDE 14 18'N

LONGITUDE 121 15'E

ELEVATION 21 M.ABOVE S.L.

DATE PLANTED 12/13/77

DATE HARVESTED 3/--/78

AMOUNT OF MOISTURE 390 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. SOME INCIDENCE OF FOOT ROT, HELMINTH,

AND ROOT ROT. NEGLIGIBLE INSECT DAMAGE.

LOCAL CHECK: ACC. 4873

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
25	LOCAL CHECK		2655	55	95	94	34
5	NACAZARI (BREAD WHEAT)	MEXICO ***	1862	41	104	68	38
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1793	43	97	73	27
19	IRA-CAL	MEXICO	1767	48	94	73	31
3	ARABIAN	MEXICO	1747	49	98	71	34
7	RAHUM	MEXICO	1733	53	98	86	25
22	DRIRA	MEXICO	1681	58	102	92	33
6	MAPACRE	MEXICO	1662	43	95	82	31
1	YOREME TC75	MEXICO	1579	44	87	72	34
21	BEAGLE	MEXICO	1556	60	106	95	34
8	YOCO (RESEL)	MEXICO	1528	52	95	73	27
15	CINNAMON	MEXICO	1505	45	95	73	32
13	MAYA I-ARM	MEXICO	1438	46	94	73	26
4	BACUM	MEXICO	1436	38	88	73	35
14	MZA-IRA	MEXICO	1436	41	88	71	33
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1428	64	99	71	34
2	NAVOJOA	MEXICO	1316	45	94	67	29
18	IA-BULK E2	MEXICO	1301	47	92	71	29
16	MZA(2)	MEXICO	1290	44	87	69	31
11	F.S.1897	MEXICO	1247	44	98	88	27
9	LINCE	MEXICO	1210	48	95	88	28
12	OCTO BULK - BUSH	MEXICO	1093	56	98	76	30
23	73UM8518	CANADA	1059	68	105	88	30
17	IRA(2)	MEXICO	621	39	82	60	30
24	TEQUILA (BARLEY)	MEXICO	258	74	106	65	32

GRAND MEAN	1447.3	49.5	95.7	75.8	30.6
STANDARD ERROR OF GRAND MEAN	34.1			0.4	0.2
COEFFICIENT OF VARIATION AS PC	20.4			4.5	6.8
LSD VARIETY MEANS 5 PC	484.5			5.6	3.4

CORRELATIONS

YIELD KG/HA					
FLOW DAYS	-0.23				
MAT DAYS	0.03	0.71			
PLNT HT	0.49	0.34	0.48		
1000 G.W.	0.14	0.17	-0.04	0.09	

9TH ITYN

TABLE 18 ASIA

SOUTH KOREA

CHUNNAM

MOKPO
CEREAL WORKERS

LATITUDE 034 47'N

DATE PLANTED 10/24/77

LONGITUDE 126 20'E

DATE HARVESTED 5/31/78

ELEVATION 0025 M.ABOVE S.L.

AMOUNT OF MOISTURE 210 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

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	PLNT HT	1000 G.W.	EARS /M2
13	MAYA I-ARM	MEXICO	3893	66	83	34	598
25	LOCAL CHECK		3785	77	69	32	600
14	M2A-IRA	MEXICO ***	3520	64	87	36	684
9	LINCE	MEXICO	3512	66	84	35	547
3	ARABIAN	MEXICO	3458	65	77	40	578
4	BACUM	MEXICO	3403	69	80	35	564
11	F.S.1897	MEXICO	3342	67	90	39	576
6	MAPACHE	MEXICO	3326	66	89	38	611
5	NACUZARI (BREAD WHEAT)	MEXICO	3312	80	74	35	669
7	RAHUM	MEXICO	3239	66	87	38	542
2	NAVOJOA	MEXICO	3203	66	79	36	622
15	CINNAMON	MEXICO	3181	64	78	36	496
8	YOCO(RESEL)	MEXICO	3175	65	78	36	542
1	YOREME TC75	MEXICO	3138	63	78	37	487
12	OCTO BULK - BUSH	MEXICO	3135	71	83	40	560
16	M2A(2)	MEXICO	3117	62	78	38	589
19	IRA-CAL	MEXICO	3045	70	75	37	522
21	BEAGLE	MEXICO	2968	65	97	42	500
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2946	79	77	34	556
24	TEQUILA (BARLEY)	MEXICO	2888	57	65	38	546
18	IA-BULK E2	MEXICO	2740	67	80	33	611
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2703	75	74	43	525
17	IRA(2)	MEXICO	2548	66	83	31	558
22	DRIRA	MEXICO	2351	62	83	44	478
23	73UM8518	CANADA	1701	68	79	38	438

	GRAND MEAN	3105.2	67.4	80.3	37.1	559.9
STANDARD ERROR OF GRAND MEAN	23.9	0.1	0.8	0.2		
COEFFICIENT OF VARIATION AS PC	6.7	1.9	8.2	3.7		
LSD VARIETY MEANS 5 PC	339.5	2.1	10.8	2.3		

YIELD KG/HA		CORRELATIONS			
TEST	WT	0.10			
PLNT	HT	0.05	-0.21		
1000	G.W.	-0.32	-0.25	0.25	
EARS	/M2	0.61	0.24	-0.00	-0.43

F. TOMAS
 LATITUDE 019 34'N DATE PLANTED 12/22/77 NITROGEN --
 LONGITUDE 070 46'W DATE HARVESTED 3/20/78 PHOSPHORUS --
 ELEVATION M.ABOVE S.L. AMOUNT OF MOISTURE 111MM POTASSIUM --

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

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
21	BEAGLE	MEXICO	536	72	88
19	IRA-CAL	MEXICO	517	63	80
18	IA-BULK E2	MEXICO	500	63	76
16	M2A(2)	MEXICO	468	59	67
3	ARABIAN	MEXICO	466	66	71
8	YOCO(RESEL)	MEXICO	456	65	72
2	NAVOJOA	MEXICO	429	59	66
6	MAPACHE	MEXICO	407	63	82
17	IRA(2)	MEXICO	372	59	65
4	BACUM	MEXICO	367	63	75
5	NACUZARI (BREAD WHEAT)	MEXICO	340	59	73
1	YOREME TC75	MEXICO	334	63	65
15	CINNAMON	MEXICO	332	66	74
7	RAHUM	MEXICO ***	310	67	75
22	DRIRA	MEXICO	307	72	80
13	MAYA I-ARM	MEXICO	303	63	77
9	LINCE	MEXICO	252	63	75
11	F.S.1897	MEXICO	231	63	80
20	SIETE CERROS (BREAD WHEAT)	MEXICO	211	65	76
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	190	72	73
14	M2A-IRA	MEXICO	182	59	76
23	73UM8518	CANADA	179	72	73
12	OCTO BULK - BUSH	MEXICO	173	72	73
25	LOCAL CHECK		-	-	-
24	TEQUILA (BARLEY)	MEXICO	-	72	49
GRAND MEAN			341.8	65.0	73.4
STANDARD ERROR OF GRAND MEAN			12.6		0.6
COEFFICIENT OF VARIATION AS PC			30.7		7.2
LSD VARIETY MEANS 5 PC			172.5		0.7

CORRELATIONS
 YIELD KG/HA
 FLOW DAYS -0.25
 PLNT HT 0.05 0.05

9TH ITYM

TABLE 20 EUROPE

BULGARIA

GEN. TOSHEVO

INST. W.S.B.

S. TSVETKOV

LATITUDE 48 40'N

DATE PLANTED 10/10/77

LONGITUDE 28 10'E

DATE HARVESTED 7/ 5/78

ELEVATION 236 M.ABOVE S.L.

AMOUNT OF MOISTURE 412 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. DISEASE DEVELOPMENT NOT REPORTED.

LOCAL CHECK: SABOVO.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT	LODG %	1000 G.W.
6	MAPACHE	MEXICO	7000	-	102	0	44
21	BEAGLE	MEXICO	6500	-	125	40	49
12	OCTO BULK - BUSH	MEXICO	6417	-	112	0	46
8	YOCO(RESEL)	MEXICO	6000	-	105	0	49
22	DRIRA	MEXICO	6000	-	125	40	58
23	73UM8510	CANADA	6000	68	130	40	60
25	LOCAL CHECK		5833	80	95	0	53
11	F.S.1897	MEXICO	5667	67	110	25	41
4	BACUM	MEXICO	5667	64	100	10	39
14	M2A-IRA	MEXICO	5667	63	100	0	41
15	CINNAMON	MEXICO	5667	63	100	5	44
16	M2A(2)	MEXICO ***	5500	62	105	25	41
13	MAYA I-ARM	MEXICO	5333	67	95	0	39
3	ARABIAN	MEXICO	5083	65	97	0	47
7	RABUM	MEXICO	5000	65	110	10	43
2	NAVOJOA	MEXICO	4833	66	95	0	43
1	YORENE TC75	MEXICO	4667	64	97	0	46
19	IRA-CAL	MEXICO	4500	69	97	0	43
9	LINCE	MEXICO	4333	63	105	0	39
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4333	78	100	25	36
18	IA-BULK E2	MEXICO	4167	64	85	25	37
5	NACQZARI (BREAD WHEAT)	MEXICO	2583	76	75	0	36
17	IRA(2)	MEXICO	2250	62	85	5	37
24	TEQUILA (BARLEY)	MEXICO	503	-	85	7	-
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	-	-	-	-	-

GRAND MEAN	4982.6	67.0	101.4	10.7	43.9
STANDARD ERROR OF GRAND MEAN	82.4		0.6		
COEFFICIENT OF VARIATION AS PC	14.0		4.6		
LSD VARIETY MEANS 5 PC	1149.2		7.7		

YIELD KG/HA		CORRELATIONS				
TEST	WT	-0.06				
PLMT	HT	0.69	-0.16			
LODG	%	0.21	0.01	0.63		
1000	G.W.	0.46	0.13	0.70	0.30	

S.A.P., I.N.R.A.

M. BERNARD

LATITUDE 045 47'N

DATE PLANTED 11/25/77

LONGITUDE 003 06'E

DATE HARVESTED 8/17/78

ELEVATION 0340 M.ABOVE S.L.

AMOUNT OF MOISTURE 452 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

FROSTS DURING MARCH.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: CLERMONT-FERRAND.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	STEM RUST	PLNT HT	LODG %	1000 G.W.	SEPT NODO
5	NACQZARI (BREAD WHEAT)	MEXICO	10865	193	56	11	95	0	46	33
25	LOCAL CHECK		10738	196	67	33	135	13	51	48
8	YOCO(RESEL)	MEXICO	10436	192	11	26	102	0	48	33
22	DRIRA	MEXICO	10252	194	11	11	122	43	63	33
23	73UM8510	CANADA	10249	194	11	11	117	40	51	33
13	MAYA I-ARM	MEXICO	10125	192	10	11	100	15	40	40
6	MAPACHE	MEXICO	10038	194	44	11	115	10	50	19
7	RAHUM	MEXICO	9847	195	15	11	113	42	50	33
2	NAVOJOA	MEXICO	9832	193	11	17	100	10	46	56
14	M2A-IRA	MEXICO	9632	193	11	11	110	18	40	41
4	BACUM	MEXICO	9632	192	11	11	110	42	40	33
11	F.S.1897	MEXICO ***	9433	195	11	11	113	42	46	29
21	BEAGLE	MEXICO	9409	193	40	11	123	45	55	33
9	LINCE	MEXICO	9393	192	11	11	105	10	40	33
1	YOREME TC75	MEXICO	9250	193	11	11	105	17	50	40
3	ARABIAN	MEXICO	9226	192	11	15	97	3	40	41
12	OCTO BULK - BUSH	MEXICO	8907	192	11	11	103	0	54	40
15	CINNAMON	MEXICO	8764	193	18	15	100	0	49	33
19	IRA-CAL	MEXICO	8740	193	67	11	95	0	44	30
16	M2A(2)	MEXICO	8724	192	71	11	102	10	46	30
18	IA-BULK E2	MEXICO	8660	193	11	11	103	40	40	41
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	8183	192	82	67	88	5	61	33
20	SIETE CERROS (BREAD WHEAT)	MEXICO	7275	194	100	11	103	0	29	0
17	IRA(2)	MEXICO	6774	193	11	11	102	0	46	41
24	TEQUILA (BARLEY)	MEXICO	-	-	-	-	-	-	-	-

GRAND MEAN	9349.2	193.1	30.9	15.5	107.0	17.1	48.8	35.2
STANDARD ERROR OF GRAND MEAN	84.1				0.4		0.0	
COEFFICIENT OF VARIATION AS PC	7.6				3.4		1.3	
LSD VARIETY MEANS 5 PC	1174.9				5.9		1.0	

CORRELATIONS

YIELD KG/HA								
FLOW DAYS	0.23							
STRP RT.L	-0.26	0.14						
STEM RUST	-0.07	-0.07	0.41					
PLNT HT	0.46	0.66	-0.13	-0.21				
LODG %	0.26	0.39	-0.32	-0.25	0.60			
1000 G.W.	0.34	-0.06	-0.29	0.40	0.25	0.28		
SEPT NODO	0.28	-0.18	-0.54	0.08	0.04	-0.05	0.42	

V.C.R.I.

A.KISS ET AL

LATITUDE 046 55'N

LONGITUDE 019 43'E

ELEVATION 0122 M.ABOVE S.L.

DATE PLANTED --/--/--

DATE HARVESTED --/--/--

AMOUNT OF MOISTURE 463 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

SOWING DATE NOT REPORTED. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. DISEASE DEVELOPMENT NOT REPORTED.

ENTRY 10 (DURUM) YIELDED VERY POORLY FOR UNEXPLAINED REASONS.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK: TRITICALE KT-77

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT	LODG %	1000 G.W.	SCAB %
24	TEQUILA (BARLEY)	MEXICO	7187	61	78	-	53	-
21	BEAGLE	MEXICO	7087	65	107	23	60	5
25	LOCAL CHECK		7033	67	112	22	49	13
13	MAYA I-ARM	MEXICO	6520	65	90	-	37	5
23	73UM8518	CANADA	6333	67	117	17	51	10
12	OCTO BULK - BUSH	MEXICO	6300	67	107	33	45	8
11	F.S.1897	MEXICO	5507	65	100	17	43	10
7	RAHUM	MEXICO ***	5400	63	102	10	38	10
9	LINCE	MEXICO	4933	62	100	-	41	10
4	BACUM	MEXICO	4893	66	95	-	41	10
22	DRIRA	MEXICO	4880	60	100	15	65	8
3	ARABIAN	MEXICO	4847	65	90	-	38	15
6	MAPACHE	MEXICO	4653	63	100	-	37	10
14	M2A-IRA	MEXICO	4640	64	90	-	43	10
16	M2A(2)	MEXICO	4333	60	97	-	40	8
8	YOCO(RESEL)	MEXICO	4333	65	90	-	41	13
15	CINNAMON	MEXICO	4313	65	93	-	44	10
1	YOREME TC75	MEXICO	3953	64	97	8	48	13
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3933	76	98	17	49	40
18	IA-BULK E2	MEXICO	3623	63	97	-	41	8
19	IRA-CAL	MEXICO	3580	65	87	-	40	15
2	NAVOJOA	MEXICO	3367	65	83	-	38	15
17	IRA(2)	MEXICO	2653	61	90	-	41	25
5	NACQZARI (BREAD WHEAT)	MEXICO	2247	73	83	-	34	35
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	-	66	78	-	58	-

GRAND MEAN	4856.3	64.9	95.5	18.3	44.4	13.3
STANDARD ERROR OF GRAND MEAN	108.2	0.2	0.6			
COEFFICIENT OF VARIATION AS PC	18.9	3.2	5.5			
LSD VARIETY MEANS 5 PC	1509.3	3.4	8.7			

CORRELATIONS	
YIELD KG/HA	
TEST WT	-0.14
PLNT HT	0.47 0.04
LODG %	0.57 0.32 0.32
1000 G.W.	0.46 -0.09 0.20 0.12
SCAB %	-0.57 0.71 -0.31 -0.19 -0.17

G. WITTMER
 LATITUDE 041 28'N DATE PLANTED 12/15/77 NITROGEN APPLIED
 LONGITUDE 015 31'E DATE HARVESTED 7/ 5/78 PHOSPHORUS APPLIED
 ELEVATION M.ABOVE S.L. AMOUNT OF MOISTURE 229 MM POTASSIUM --

SOWING DATE, SOIL MOISTURE CONDITION AND GERMINATION % NOT REPORTED.
 DISEASE DEVELOPMENT NOT REPORTED.
 INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
 RUSTS REPORTED HERE AS PERCENTS. LOCAL CHECK: NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.	POWD %	SEPT TRIT
24	TEQUILA (BARLEY)	MEXICO	5541	69	134	0	0	103	34	29	41
23	73UM8518	CANADA	4741	80	146	4	0	95	32	33	44
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4741	83	144	78	4	107	44	29	29
22	DRIRA	MEXICO ***	4444	78	139	85	11	94	43	33	33
18	IA-BULK E2	MEXICO	4207	79	152	11	0	83	42	37	29
14	M2A-IRA	MEXICO	4148	80	146	44	11	82	36	33	26
7	RAHUM	MEXICO	4044	77	139	78	0	95	35	41	40
11	P.S.1897	MEXICO	4030	78	146	82	4	85	40	29	37
16	M2A(2)	MEXICO	3970	79	152	0	11	88	41	33	78
3	ARABIAN	MEXICO	3970	77	144	33	4	99	40	63	26
15	CINNAMON	MEXICO	3911	75	144	59	0	78	37	41	33
6	MAPACHE	MEXICO	3674	78	150	71	0	130	31	26	29
1	YORENE TC75	MEXICO	3674	78	147	78	15	85	32	33	22
21	BEAGLE	MEXICO	3674	78	144	74	0	82	38	44	29
2	NAVOJOA	MEXICO	3644	77	148	48	33	88	43	40	37
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3615	77	146	71	0	84	39	37	33
4	BACUM	MEXICO	3467	79	143	52	15	82	37	29	22
8	YOCO(RESEL)	MEXICO	3437	75	146	44	7	78	43	41	44
9	LINCE	MEXICO	3407	77	147	63	0	71	34	48	40
13	MAYA I-ARM	MEXICO	3319	79	151	82	37	84	35	33	29
5	NACOZARI (BREAD WHEAT)	MEXICO	3259	81	153	11	30	76	38	29	56
25	LOCAL CHECK		3259	82	149	89	52	104	43	48	18
19	IRA-CAL	MEXICO	3111	76	151	78	4	80	37	55	26
17	IRA(2)	MEXICO	3081	77	152	26	15	80	33	33	44
12	OCTO BULK -- BUSH	MEXICO	2963	72	149	85	7	78	31	48	29

GRAND MEAN	3813.3	77.6	146.5	53.8	10.3	88.5	37.6	37.8	35.0
STANDARD ERROR OF GRAND MEAN	65.4	0.2				0.5	0.2		
COEFFICIENT OF VARIATION AS PC	14.9	2.2				4.9	5.5		
LSD VARIETY MEANS 5 PC	929.7	2.9				7.1	3.4		

CORRELATIONS

YIELD KG/HA										
TEST WT	-0.10									
FLOW DAYS	-0.68	0.41								
LEAF RUST	-0.37	0.10	-0.09							
STEM RUST	-0.41	0.40	0.38	0.13						
PLNT HT	0.44	0.14	-0.25	0.07	-0.03					
1000 G.W.	0.13	0.38	-0.03	0.02	0.26	-0.00				
POWD %	-0.36	-0.22	0.05	0.20	-0.03	-0.22	0.12			
SEPT TRIT	0.12	-0.06	0.18	-0.62	-0.09	-0.17	0.06	-0.26		

9TH ITYM

TABLE 24 EUROPE

ITALY

ROME

CASSACCIA

L. ROSSI ET AL

LATITUDE 041 54'N

LONGITUDE 012 29'E

ELEVATION M.ABOVE S.L.

DATE PLANTED 12/15/77

DATE HARVESTED 7/ 3/78

AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NORMAL.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: T5

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT
6	MAPACHE	MEXICO	6545	66	102
21	BEAGLE	MEXICO	6183	67	117
5	NACQZARI (BREAD WHEAT)	MEXICO ***	5637	81	88
8	YOCO (RESEL)	MEXICO	5527	69	96
4	BACUM	MEXICO	5493	66	95
12	OCTO BULK - BUSH	MEXICO	5418	69	100
16	M2A(2)	MEXICO	5291	62	98
11	F.S.1897	MEXICO	5266	68	103
22	DRIRA	MEXICO	5199	63	120
13	MAYA I-ARM	MEXICO	5174	67	96
25	LOCAL CHECK		5174	69	100
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	5165	74	91
23	73UM8518	CANADA	5123	64	113
9	LINCE	MEXICO	5115	65	99
14	M2A-IRA	MEXICO	5080	63	96
3	ARABIAN	MEXICO	5073	67	91
7	RAHUM	MEXICO	4778	67	97
2	NAVOJOA	MEXICO	4728	69	90
15	CINNAMON	MEXICO	4694	66	93
24	TEQUILA (BARLEY)	MEXICO	4581	60	81
19	IRA-CAL	MEXICO	4459	68	84
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4408	75	92
1	YOREME TC75	MEXICO	4223	65	97
18	IA-BULK E2	MEXICO	4172	66	93
17	IRA(2)	MEXICO	3659	63	94

GRAND MEAN	5046.7	67.1	97.0
STANDARD ERROR OF GRAND MEAN	59.2	0.1	0.3
COEFFICIENT OF VARIATION AS PC	10.2	1.7	2.8
LSD VARIETY MEANS 5 PC	842.2	1.9	4.5

CORRELATIONS			
YIELD	KG/HA		
TEST	WT	0.19	
PLNT	HT	0.45	-0.25

9TH ITYN

TABLE 25 EUROPE

NORWAY

OSLO

AGR UNIV NORWAY

K. RINGLUND

LATITUDE 060 00'N

DATE PLANTED 5/ 5/78

LONGITUDE 011 00'E

DATE HARVESTED 9/13/78

ELEVATION 0090 M. ABOVE S.L. AMOUNT OF MOISTURE 308 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: RUNAR

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	PROT %
25	LOCAL CHECK		3429	79	57	82	41	16
5	NACQZARI (BREAD WHEAT)	MEXICO ***	2492	76	55	66	39	16
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2099	74	60	64	33	14
24	TEQUILA (BARLEY)	MEXICO	2065	60	54	42	37	14
6	MAPACHE	MEXICO	1973	58	55	80	39	13
21	BEAGLE	MEXICO	1893	57	59	87	44	14
11	F.S. 1897	MEXICO	1425	61	55	80	39	14
7	RAHUM	MEXICO	1404	59	54	72	42	15
3	ARABIAN	MEXICO	1379	54	59	67	37	13
12	OCTO BULK - BUSH	MEXICO	1370	61	55	72	42	14
2	NAVOJOA	MEXICO	1222	61	57	66	44	14
13	MAYA I-ARM	MEXICO	1160	58	55	67	35	15
19	IRA-CAL	MEXICO	1092	58	53	63	36	16
23	73UM8518	CANADA	967	50	60	80	40	15
16	M2A(2)	MEXICO	961	58	57	67	42	15
9	LINCE	MEXICO	910	58	55	67	40	15
15	CINNAMON	MEXICO	892	59	55	70	41	15
8	YOCO(RESEL)	MEXICO	830	52	59	65	38	14
18	IA-BULK E2	MEXICO	781	58	53	62	41	17
4	BACUM	MEXICO	760	59	53	68	42	14
22	DRIRA	MEXICO	718	50	61	88	49	12
14	M2A-IRA	MEXICO	621	54	54	59	39	15
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	601	-	55	58	47	17
1	YOREME TC75	MEXICO	573	56	57	70	45	15
17	IRA(2)	MEXICO	164	-	54	68	36	17

GRAND MEAN	1271.3	60.5	56.1	69.3	40.3	14.8
STANDARD ERROR OF GRAND MEAN	32.6			0.5	0.2	
COEFFICIENT OF VARIATION AS PC	22.2			6.3	5.3	
LSD VARIETY MEANS 5 PC	463.1			7.1	3.5	

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	PROT %
	0.77				
	0.14	-0.13			
	0.17	-0.06	0.46		
	-0.22	-0.26	0.18	0.37	
	-0.13	0.33	-0.53	-0.35	-0.11

RADZIKOW

S. STARZYCKI

LATITUDE 052 12'N

DATE PLANTED 4/ 4/78

NITROGEN APPLIED

LONGITUDE 029 39'E

DATE HARVESTED 8/25/78

PHOSPHORUS APPLIED

ELEVATION 0090 M.ABOVE S.L. AMOUNT OF MOISTURE 330 MM

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION POOR.

SPRING WAS COLD, SUMMER VERY WET.

NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: YARA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	STRP RT.L	LEAF RUST	PLNT HT	1000 G.W.	SEPT TRIT
25	LOCAL CHECK		4182	75	80S	0	93	39	89
5	NACOZARI (BREAD WHEAT)	MEXICO	4165	75	0	5MR	80	43	33
20	SIETE CERROS (BREAD WHEAT)	MEXICO ***	2838	77	0	40S	77	39	67
6	MAPACHE	MEXICO	2310	64	0	10MR	97	47	44
9	LINCE	MEXICO	2282	63	0	0	88	41	52
11	F.S.1897	MEXICO	2238	63	0	10S	85	36	48
7	RAHUM	MEXICO	2110	63	0	0	91	38	44
13	MAYA I-ARM	MEXICO	2094	63	0	0	83	37	56
15	CINNAMON	MEXICO	2077	66	0	10MS	86	45	48
12	OCTO BULK - BUSH	MEXICO	1916	62	0	0	85	43	52
14	M2A-IRA	MEXICO	1910	62	0	0	78	42	74
4	BACUM	MEXICO	1760	65	0	40S	84	42	74
16	M2A(2)	MEXICO	1577	63	0	0	84	43	48
18	IA-BULK E2	MEXICO	1522	62	0	0	81	39	55
3	ARABIAN	MEXICO	1477	61	0	30MS	79	41	71
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1466	64	5MS	5MS	77	47	52
1	YOREME TC75	MEXICO	1449	57	0	10MS	81	45	52
22	DRIRA	MEXICO	1422	54	0	10MR	103	39	18
19	IRA-CAL	MEXICO	1399	63	0	0	78	39	74
2	NAVOJOA	MEXICO	1383	62	0	15MS	74	42	59
21	BEAGLE	MEXICO	1349	60	5MR	10MR	109	47	26
23	73UM8518	CANADA	1305	58	5MR	5MR	94	42	11
8	YOCO(RESEL)	MEXICO	1288	63	0	40S	77	43	55
17	IRA(2)	MEXICO	877	58	0	20MS	76	37	74
24	TEQUILA (BARLEY)	MEXICO	405	53	0	40S	57	50	93

GRAND MEAN	1872.1	63.0	3.7	13.3	83.8	41.8	54.0
STANDARD ERROR OF GRAND MEAN	70.4	0.2			0.8	0.2	
COEFFICIENT OF VARIATION AS PC	32.6	2.6			8.0	5.1	
LSD VARIETY MEANS 5 PC	1000.7	2.7			11.1	3.5	

CORRELATIONS

YIELD KG/HA	TEST WT	STRP RT.L	LEAF RUST	PLNT HT	1000 G.W.	SEPT TRIT
	0.85					
	0.55	0.43				
	-0.29	-0.04	-0.17			
	0.25	0.02	0.19	-0.57		
	-0.25	-0.21	-0.13	0.06	-0.11	
	-0.01	0.16	0.33	0.42	-0.67	-0.05

9TH ITYN

TABLE 27 EUROPE

POLAND

WARKA

PUSTKOV

LATITUDE	050 55'N	DATE PLANTED	3/30/78	NITROGEN	--
LONGITUDE	016 48'E	DATE HARVESTED	9/ 6/78	PHOSPHORUS	--
ELEVATION	0200 M.ABOVE S.L.	AMOUNT OF MOISTURE	423 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 THE SPRING WAS RATHER WET AND COLD.
 NO INSECT, WEED OR BIRD PROBLEMS.
 LOCAL CHECK: KOLIBRI

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LODG %	1000 G.W.	POWD %
6	MAPACHE	MEXICO	7027	64	164	2	52	11
11	F.S.1897	MEXICO	6988	66	165	5	47	11
4	BACUM	MEXICO	6985	63	160	3	49	11
23	73UM0518	CANADA	6982	65	168	3	50	11
12	OCTO BULK - BUSH	MEXICO	6795	65	163	3	52	11
16	M2A(2)	MEXICO	6783	62	163	3	51	11
21	BEAGLE	MEXICO	6773	64	167	2	57	11
9	LINCE	MEXICO	6678	59	163	2	44	11
22	DRIRA	MEXICO	6637	58	166	2	67	11
13	MAYA I-ARM	MEXICO	6542	62	162	3	42	11
7	RAHUM	MEXICO	6495	61	161	4	47	11
8	YOCO(RESEL)	MEXICO	6475	66	166	2	54	11
2	NAVOJOA	MEXICO	6412	67	163	3	52	11
15	CINNAMON	MEXICO	6378	65	161	4	52	11
20	SIETE CERROS (BREAD WHEAT)	MEXICO	6367	72	170	4	42	11
25	LOCAL CHECK		6312	76	174	2	50	11
3	ARABIAN	MEXICO	6180	64	162	3	50	11
5	NACQZARI (BREAD WHEAT)	MEXICO	6157	69	167	2	47	33
24	TEQUILA (BARLEY)	MEXICO ***	6065	52	159	2	48	11
14	M2A-IRA	MEXICO	6050	62	161	4	46	11
19	IRA-CAL	MEXICO	5832	62	159	2	45	11
1	YOREME TC75	MEXICO	5733	63	164	2	56	11
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	5068	69	167	2	63	11
18	IA-BULK E2	MEXICO	4988	60	160	2	47	11
17	IRA(2)	MEXICO	4328	59	162	2	47	11

GRAND MEAN	6278.0	63.7	163.9	50.5	11.9
STANDARD ERROR OF GRAND MEAN	50.4				
COEFFICIENT OF VARIATION AS PC	6.9				
LSD VARIETY MEANS 5 PC	716.1				

CORRELATIONS					
YIELD KG/HA	TEST WT	FLOW DAYS	1000 G.W.	POWD %	
	0.14				
	0.18	0.75			
	0.06	0.03	0.32		
	-0.04	0.22	0.18	-0.12	

9TH ITYN

TABLE 28 EUROPE

PORTUGAL

ALENTEJO

PBS ALENTEJO

M.T. BARRADAS ET AL

LATITUDE 038 54'N

LONGITUDE 007 09'W

ELEVATION 0208 M. ABOVE S.L.

DATE PLANTED 11/10/77

DATE HARVESTED 7/ 3/78

AMOUNT OF MOISTURE 612 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

PERSISTENT AND HEAVY RAINFALL THROUGHOUT WINTER.

NEGLECTIBLE INSECT AND BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.

LOCAL CHECK: ANZA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT
4	BACUM	MEXICO	4033	72	117	202	10MR	102	30	46	11
12	OCTO BULK - BUSH	MEXICO	3810	74	130	203	0	104	20	53	17
21	BEAGLE	MEXICO	3717	71	128	205	40S	130	20	51	11
16	M2A(2)	MEXICO	3646	66	116	203	0	98	20	43	11
8	YOCO(RESEL)	MEXICO	3622	73	122	202	20MS	103	10	47	17
2	NAVOJOA	MEXICO	3583	69	119	203	5R	92	10	46	17
13	MAYA I-ARM	MEXICO	3565	73	117	204	0	98	30	45	11
1	YOREME TC75	MEXICO	3550	67	121	204	10MR	99	20	52	11
14	M2A-IRA	MEXICO	3504	70	117	206	0	102	40	47	11
15	CINNAMON	MEXICO	3504	71	121	202	TMR	109	30	48	17
6	MAPACHE	MEXICO	3450	68	123	202	0	104	30	43	28
3	ARABIAN	MEXICO	3389	67	119	203	40S	98	20	47	11
11	F.S. 1897	MEXICO	3365	73	118	203	0	119	40	47	11
19	IRA-CAL	MEXICO	3280	73	115	202	0	94	30	39	11
22	DRIRA	MEXICO	3042	68	132	205	0	125	20	62	11
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3020	77	124	202	10MR	89	20	52	39
25	LOCAL CHECK		2992	79	138	205	40S	90	0	41	56
7	RAHUM	MEXICO	2855	68	118	203	TR	110	30	43	11
17	IRA(2)	MEXICO	2851	68	116	203	0	94	40	41	11
5	NACCOZARI (BREAD WHEAT)	MEXICO	2769	80	129	202	10MR	92	10	40	67
9	LINCE	MEXICO	2705	69	118	204	0	98	20	44	11
18	IA-BULK E2	MEXICO	2685	70	115	204	0	97	20	39	11
20	SIETE CERROS (BREAD WHEAT)	MEXICO ***	2265	77	134	205	30S	94	10	36	78
23	73UM8518	CANADA	2143	71	142	210	0	107	10	54	11
24	TEQUILA (BARLEY)	MEXICO	1272	-	136	194	----	77	0	36	-
GRAND MEAN			3144.7	71.3	123.5	203.3	7.7	100.9	21.2	45.7	20.8
STANDARD ERROR OF GRAND MEAN			77.8	0.1				0.6			
COEFFICIENT OF VARIATION AS PC			21.4	0.7				5.0			
LSD VARIETY MEANS 5 PC			1106.1	0.8				8.4			

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT
	-0.18							
	-0.53	0.46						
	0.22	-0.04	0.13					
	-0.01	0.28	0.37	0.10				
	0.42	-0.29	-0.02	0.48	0.04			
	0.47	-0.38	-0.70	0.14	-0.45	0.39		
	0.39	-0.24	0.17	0.46	-0.12	0.64	0.12	
	-0.34	0.78	0.51	-0.03	0.39	-0.39	-0.50	-0.40

9TH ITYN

TABLE 29

EUROPE

ROMANIA

ILFOV

FUNDULEA

N.SAULESCU

LATITUDE 044 03'N

LONGITUDE 024 10'E

ELEVATION 0066 M.ABOVE S.L.

DATE PLANTED

3/10/78

DATE HARVESTED

7/22/78

AMOUNT OF MOISTURE

717 MM

NITROGEN

PHOSPHORUS

POTASSIUM

APPLIED

APPLIED

--

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	PLNT HT	1000 G.W.
16	M2A(2)	MEXICO	2521	65	73	110	----	89	32
12	OCTO BULK - BUSH	MEXICO	2402	71	74	110	----	101	32
6	MAPACHE	MEXICO	2344	67	74	109	10MR	107	35
4	BACUM	MEXICO	2291	68	71	108	60S	96	30
9	LINCE	MEXICO	2236	64	73	110	10R-MR	91	31
13	MAYA I-ARM	MEXICO ***	2202	67	73	109	----	90	30
21	BEAGLE	MEXICO	2144	67	75	112	----	110	30
7	RAHUM	MEXICO	2126	66	73	108	10S	101	31
5	NACUZARI (BREAD WHEAT)	MEXICO	2116	78	75	107	----	85	30
19	IRA-CAL	MEXICO	2110	67	70	108	----	85	29
2	NAVOJOA	MEXICO	2110	68	73	110	20S	89	30
22	DRIRA	MEXICO	2093	57	77	115	----	110	46
11	F.S.1897	MEXICO	2074	69	74	110	----	110	32
18	IA-BULK E2	MEXICO	2073	67	72	109	10S-MS	91	32
3	ARABIAN	MEXICO	1930	66	73	110	10R-MR	90	27
1	YOKEME TC75	MEXICO	1903	61	74	111	60S-MS	100	33
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1792	74	74	109	30MR-MS	75	31
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1792	75	75	112	60S	85	26
23	73UM8518	CANADA	1766	64	77	114	----	98	35
8	YOCO(RESEL)	MEXICO	1751	65	75	110	60S	96	30
15	CINNAMON	MEXICO	1701	66	72	109	60S-MS	95	36
24	TEQUILA (BARLEY)	MEXICO	1638	59	65	93	----	72	34
25	LOCAL CHECK		1521	71	79	115	10S	110	27
14	M2A-IRA	MEXICO	1519	61	72	109	----	96	28
17	IRA(2)	MEXICO	1344	62	71	108	----	86	27

GRAND MEAN	1980.0	66.5	73.3	109.4	28.1	95.0	31.7
STANDARD ERROR OF GRAND MEAN	19.5	0.2				0.6	0.2
COEFFICIENT OF VARIATION AS PC	8.5	2.3				5.6	5.0
LSD VARIETY MEANS 5 PC	277.5	2.5				8.7	2.6

CORRELATIONS

YIELD KG/HA									
TEST WT	0.19								
FLOW DAYS	0.04	0.31							
MAT DAYS	0.11	0.16	0.07						
LEAF RUST	-0.24	0.00	-0.07	-0.00					
PLNT HT	0.21	-0.18	0.60	0.62	-0.07				
1000 G.W.	0.27	-0.45	0.16	0.12	0.02	0.51			

9TH ITYM

TABLE 30 EUROPE

SPAIN

ZARAGOZA

COGULLADA

J.COMENGE ET AL

LATITUDE 041 38'N

DATE PLANTED 12/ 9/77

LONGITUDE 000 54'W

DATE HARVESTED 7/15/78

ELEVATION 0202 M.ABOVE S.L.

AMOUNT OF MOISTURE 1542 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: CACHIRULO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.	POWD %
5	NACAZARI (BREAD WHEAT)	MEXICO	6592	142	196	10MS	90	42	78
6	MAPACHE	MEXICO	6481	137	197	5MS	100	41	48
13	MAYA I-ARM	MEXICO	5962	136	195	----	95	41	48
4	BACUM	MEXICO	5851	139	202	5MR	100	41	67
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	5740	139	199	5MR	95	52	74
21	BEAGLE	MEXICO ***	5666	135	198	5S	115	42	37
11	F.S.1097	MEXICO	5481	141	200	TRR	105	39	33
1	YOREME TC75	MEXICO	5407	141	198	TRR	95	47	11
8	YOCO(RESEL)	MEXICO	5407	138	197	5MS	90	42	56
12	OCTO BULK - BUSH	MEXICO	5296	139	197	----	100	47	40
9	LINCE	MEXICO	5259	139	201	----	90	38	74
3	ARABIAN	MEXICO	5259	140	200	15MS	100	44	71
16	M2A(2)	MEXICO	5222	138	198	----	85	36	67
2	NAVOJOA	MEXICO	5185	139	200	15S	95	43	29
25	LOCAL CHECK		5111	149	204	20MS	130	37	37
22	DRIRA	MEXICO	5074	143	195	TRR	105	51	37
19	IRA-CAL	MEXICO	5037	134	193	----	80	42	78
14	M2A-IRA	MEXICO	5037	138	199	----	95	44	48
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4888	151	201	----	90	41	56
23	73UM8518	CANADA	4740	143	200	----	105	42	11
18	IA-BULK E2	MEXICO	4740	136	196	----	80	42	78
7	RAHUM	MEXICO	4703	138	194	----	100	43	67
15	CINNAMON	MEXICO	4518	138	201	----	90	42	52
24	TEQUILA (BARLEY)	MEXICO	4185	131	188	40S	85	40	71
17	IRA(2)	MEXICO	3777	135	192	TRR	85	41	78

GRAND MEAN	5224.7	139.1	197.7	8.8	96.0	42.5	53.8
STANDARD ERROR OF GRAND MEAN	56.4					0.1	
COEFFICIENT OF VARIATION AS PC	9.3					2.5	
LSD VARIETY MEANS 5 PC	802.0					1.7	

YIELD KG/HA		CORRELATIONS						
FLOW	DAYS	0.13						
MAT	DAYS	0.30	0.67					
LEAF	RUST	-0.39	-0.40	-0.52				
PLNT	HT	0.24	0.48	0.51	-0.16			
1000	G.W.	0.09	0.02	-0.13	-0.42	0.02		
POWD	%	-0.09	-0.36	-0.36	0.22	-0.57	-0.16	

9TH ITYN

TABLE 31

EUROPE

SWEDEN

LANDSKRONA

SVALOV

SWEDISH SEED ASSCN.

LATITUDE 056 00'N

LONGITUDE 013 00'E

ELEVATION 0050 M.ABOVE S.L.

DATE PLANTED

4/10/78

DATE HARVESTED

9/ 8/78

AMOUNT OF MOISTURE

248 MM

NITROGEN

APPLIED

PHOSPHORUS

APPLIED

POTASSIUM

APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING.
 VERY DRY DURING THE SPRING, WET AT HARVEST TIME.
 BIRDS HEAVILY DAMAGED THE BARLEY ENTRY.
 LOCAL CHECK: DRABAT

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS
25	LOCAL CHECK		2533	74	69
21	BEAGLE	MEXICO ***	1825	68	66
23	73UM8518	CANADA	1722	61	66
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1636	71	67
13	MAYA I-ARM	MEXICO	1614	58	64
5	NACQZARI (BREAD WHEAT)	MEXICO	1611	66	65
6	MAPACHE	MEXICO	1567	61	65
11	F.S.1897	MEXICO	1517	58	65
22	DRIRA	MEXICO	1514	55	67
14	M2A-IRA	MEXICO	1375	59	64
9	LINCE	MEXICO	1186	57	64
7	RAHUM	MEXICO	1161	58	63
3	ARABIAN	MEXICO	1111	61	64
4	BACUM	MEXICO	1089	61	63
16	M2A(2)	MEXICO	1064	56	65
1	YOREME TC75	MEXICO	1006	62	65
15	CINNAMON	MEXICO	1003	57	64
19	IRA-CAL	MEXICO	931	62	64
8	YOCO(RESEL)	MEXICO	844	62	65
2	NAVOJOA	MEXICO	833	68	64
18	IA-BULK E2	MEXICO	756	59	62
12	OCTO BULK - BUSH	MEXICO	750	59	65
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	661	62	64
17	IRA(2)	MEXICO	333	-	63
24	TEQUILA (BARLEY)	MEXICO	322	-	66

GRAND MEAN 1198.5 60.9 64.8
 STANDARD ERROR OF GRAND MEAN 26.3
 COEFFICIENT OF VARIATION AS PC 19.0
 LSD VARIETY MEANS 5 PC 374.4

CORRELATIONS

YIELD KG/HA
 TEST WT 0.44
 FLOW DAYS 0.63 0.56

9TH ITYM

TABLE 32 EUROPE

WEST GERMANY

BAVARIA

FREISING-WEIHENSTEPHAN

L.B.P.

LATITUDE 048 24'N

DATE PLANTED 3/29/78

NITROGEN

APPLIED

LONGITUDE 011 44'E

DATE HARVESTED 8/22/78

PHOSPHORUS

APPLIED

ELEVATION 0467 M.ABOVE S.L. AMOUNT OF MOISTURE 446 MM

POTASSIUM

APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

UNFAVORABLE CLIMATIC AND SOIL CONDITIONS IN SPRING.

NEGLECTIBLE DISEASE DEVELOPMENT. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
5	NACQZARI (BREAD WHEAT)	MEXICO	5307	78	95
23	73UM8518	CANADA	5067	79	120
21	BEAGLE	MEXICO	4933	79	130
25	LOCAL CHECK		4837	-	115
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4693	84	95
6	MAPACHE	MEXICO	4667	76	115
4	BACUN	MEXICO	4400	73	100
8	YOCO(RESEL)	MEXICO	4267	76	95
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	4213	77	95
3	ARABIAN	MEXICO	4133	76	90
7	RAHUM	MEXICO	4107	75	105
14	M2A-IRA	MEXICO	3973	74	95
16	M2A(2)	MEXICO	3973	76	97
22	DRIRA	MEXICO	3867	78	127
13	MAYA I-ARM	MEXICO	3813	76	90
11	P.S.1897	MEXICO	3467	76	115
9	LINCE	MEXICO	3440	76	95
15	CINNAMON	MEXICO	3387	75	100
19	IRA-CAL	MEXICO	3253	72	90
2	NAVOJOA	MEXICO	3200	75	90
1	YOREME TC75	MEXICO	3120	76	95
12	OCTO BULK - BUSH	MEXICO	2933	77	105
18	IA-BULK E2	MEXICO	2747	74	90
17	IRA(2)	MEXICO	2347	73	90
24	TEQUILA (BARLEY)	MEXICO	1920	73	75

GRAND MEAN 3842.6 76.0 100.4
 STANDARD ERROR OF GRAND MEAN
 COEFFICIENT OF VARIATION AS PC
 LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD KG/HA
 FLOW DAYS 0.60
 PLNT HT 0.55 0.44

9TH ITYM

TABLE 33

EUROPE

WEST GERMANY

LOWER SAXONY

BERGEN

F. GROTE

LATITUDE 49 00'N

LONGITUDE 13 00'E

ELEVATION 70 M.ABOVE S.L.

DATE PLANTED 3/30/78

DATE HARVESTED 9/15/78

AMOUNT OF MOISTURE 430 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION POOR.

MORE PRECIPITATION THAN USUAL.

NEGLECTIBLE DISEASE DEVELOPMENT. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: KOLIBRI.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	PLNT HT	LODG %	1988 G.W.
22	DRIRA	MEXICO	6621	104	21	51
25	LOCAL CHECK		6359	103	25	46
21	BEAGLE	MEXICO	6002	105	25	43
23	73UM8518	CANADA ***	5311	90	21	53
11	F.S.1897	MEXICO	5121	93	33	40
6	MAPACHE	MEXICO	4882	91	21	44
16	M2A(2)	MEXICO	4302	80	13	48
12	OCTO BULK - BUSH	MEXICO	4287	87	17	47
8	YOCO(RESEL)	MEXICO	4239	85	21	46
24	TEQUILA (BARLEY)	MEXICO	4192	74	96	44
3	ARABIAN	MEXICO	4049	82	25	46
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3906	91	42	36
15	CINNAMON	MEXICO	3834	85	13	48
9	LINCE	MEXICO	3787	81	34	41
5	NACAZARI (BREAD WHEAT)	MEXICO	3644	79	38	44
13	MAYA I-ARM	MEXICO	3620	84	46	38
2	NAVOJOA	MEXICO	3620	79	25	48
14	M2A-IRA	MEXICO	3477	84	38	42
4	BACUM	MEXICO	3311	80	46	43
7	RAHUM	MEXICO	3144	82	29	42
1	YOREME TC75	MEXICO	3002	82	25	49
19	IRA-CAL	MEXICO	2858	75	46	39
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2286	78	17	52
18	IA-BULK E2	MEXICO	1620	80	42	39
17	IRA(2)	MEXICO	1429	76	46	44
		GRAND MEAN	3962.5	85.3	32.3	44.6
		STANDARD ERROR OF GRAND MEAN	84.4	1.1		0.3
		COEFFICIENT OF VARIATION AS PC	18.4	10.9		6.1
		LSD VARIETY MEANS 5 PC	1200.0	15.3		4.5

YIELD KG/HA		CORRELATIONS		
PLNT	HT	0.84		
LODG	%	-0.27	-0.40	
1988	G.W.	0.26	0.11	-0.50

9TH ITYM

TABLE 34

EUROPE

YUGOSLAVIA

CROATIA

ZAGREB

Z.MARTINIC

LATITUDE 045 46'N

DATE PLANTED 3/11/78

LONGITUDE 015 56'E

DATE HARVESTED --/--/--

ELEVATION 0116 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

EARLY SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 SPRING RAINY AND COOL. RAINY DURING HARVESTING.
 LOCAL CHECK: GORANKA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LODG %	POWD %
6	MAPACHE	MEXICO	4833	63	64	0	0
25	LOCAL CHECK		4288	77	68	0	75
7	RAHUM	MEXICO	4088	62	64	0	0
13	MAYA I-ARM	MEXICO	4055	66	63	0	0
11	F.S.1897	MEXICO	4022	66	64	0	0
16	M2A(2)	MEXICO	4011	59	64	0	0
12	OCTO BULK - BUSH	MEXICO	3908	69	63	0	0
4	BACUM	MEXICO ***	3877	67	61	0	0
17	IRA(2)	MEXICO	3833	64	62	0	0
15	CINNAMON	MEXICO	3789	63	64	0	0
2	NAVOJOA	MEXICO	3766	67	64	0	0
14	M2A-IRA	MEXICO	3766	62	63	0	0
9	LINCE	MEXICO	3677	61	64	0	0
1	YOREME TC75	MEXICO	3644	61	65	0	0
19	IRA-CAL	MEXICO	3566	67	61	0	0
18	IA-BULK E2	MEXICO	3477	64	61	0	0
24	TEQUILA (BARLEY)	MEXICO	3455	51	62	0	84
21	BEAGLE	MEXICO	3200	63	65	0	0
3	ARABIAN	MEXICO	3100	64	64	0	0
5	MACOZARI (BREAD WHEAT)	MEXICO	3055	71	66	0	79
8	YOCO(RESEL)	MEXICO	2889	62	64	0	0
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2777	68	-	0	75
22	DRIRA	MEXICO	2366	53	66	0	13
23	73UM8518	CANADA	1733	52	67	0	0
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1700	64	65	0	8

GRAND MEAN	3478.3	63.5	63.9	0.0	13.4
STANDARD ERROR OF GRAND MEAN	52.5	0.2			
COEFFICIENT OF VARIATION AS PC	13.1	3.0			
LSD VARIETY MEANS 5 PC	746.9	3.1			

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	LODG %	POWD %
	0.40			
	-0.34	0.02		
	0.00	0.00	0.00	
	-0.11	0.20	0.29	0.00

9TH ITYN

TABLE 35 EUROPE

YUGOSLAVIA

VOJVODINA

S.A.P.

S. BOROJEVIC

LATITUDE 045 00'N

DATE PLANTED 3/ 3/78

LONGITUDE 019 00'E

DATE HARVESTED 7/24/78

ELEVATION 0084 M.ABOVE S.L.

AMOUNT OF MOISTURE 490 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 WEATHER NOT REPORTED. DISEASE DEVELOPMENT NOT REPORTED.
 NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: NS-14-13

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
21	BEAGLE	MEXICO	5267	69	155	200	102	42
6	MAPACHE	MEXICO ***	4675	67	155	200	94	35
25	LOCAL CHECK		4383	72	159	196	80	27
19	IRA-CAL	MEXICO	4342	72	151	195	81	33
22	DRIRA	MEXICO	4283	62	158	201	99	43
24	TEQUILA (BARLEY)	MEXICO	4233	67	148	191	68	36
5	NACUZARI (BREAD WHEAT)	MEXICO	4200	78	156	200	77	28
16	M2A(2)	MEXICO	4133	67	154	199	83	34
7	RAHUM	MEXICO	4125	67	153	198	86	30
13	MAYA I-ARM	MEXICO	4058	69	153	197	80	29
11	F.S.1897	MEXICO	4008	70	155	200	95	31
14	M2A-IRA	MEXICO	3942	66	152	195	86	31
23	73UM8518	CANADA	3775	60	159	203	91	35
3	ARABIAN	MEXICO	3667	68	153	199	81	31
4	BACUM	MEXICO	3642	68	153	197	84	31
2	NAVOJOA	MEXICO	3617	70	153	198	80	31
12	OCTO BULK - BUSH	MEXICO	3600	71	154	199	85	34
8	YOCO(RESEL)	MEXICO	3600	68	155	200	59	32
1	YOREME TC75	MEXICO	3500	66	155	199	84	33
9	LINCE	MEXICO	3492	64	154	199	83	30
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3350	77	158	201	76	25
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3350	76	155	197	74	39
15	CINNAMON	MEXICO	3333	66	156	200	84	36
18	IA-BULK E2	MEXICO	3283	68	152	195	80	30
17	IRA(2)	MEXICO	2550	65	151	197	76	28

GRAND MEAN	3857.7	68.6	154.3	198.2	82.7	32.6
STANDARD ERROR OF GRAND MEAN	32.8	0.2			1.0	0.2
COEFFICIENT OF VARIATION AS PC	7.4	2.0			10.4	4.3
LSD VARIETY MEANS 5 PC	466.8	2.3			14.1	2.3

CORRELATIONS

YIELD KG/HA					
TEST WT	0.06				
FLOW DAYS	0.12	0.07			
MAT DAYS	0.02	-0.12	0.76		
PLNT HT	0.48	-0.35	0.32	0.41	
1000 G.W.	0.40	-0.34	0.08	0.15	0.44

A. HADJICHRISTODOULOU

LATITUDE 35 04'N

LONGITUDE 33 20'E

ELEVATION 150 M.ABOVE S.L.

DATE PLANTED 12/ 3/77

DATE HARVESTED 6/14/78

AMOUNT OF MOISTURE 267 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.
 CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: ATHENAI8

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT	1000 G.W.
24	TEQUILA (BARLEY)	MEXICO	2963	86	70	35
13	MAYA I-ARM	MEXICO	2206	81	95	37
6	MAPACHE	MEXICO	2106	81	105	38
5	MACOZARI (BREAD WHEAT)	MEXICO	2042	84	83	36
8	YOCO(RESEL)	MEXICO	2006	80	87	36
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1892	88	82	49
25	LOCAL CHECK		1828	77	75	44
7	RAHUM	MEXICO	1821	79	90	36
22	DRIRA	MEXICO	1792	85	110	50
4	BACUM	MEXICO	1742	81	95	34
21	BEAGLE	MEXICO	1728	82	110	43
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1671	90	77	34
14	M2A-IRA	MEXICO	1635	80	80	37
9	LINCE	MEXICO	1607	82	93	35
15	CINNAMON	MEXICO	1521	80	93	42
11	F.S.1897	MEXICO	1514	82	98	37
2	NAVOJOA	MEXICO	1421	80	85	37
3	ARABIAN	MEXICO	1378	80	85	38
23	73UM8518	CANADA	1328	96	90	36
12	OCTO BULK - BUSH	MEXICO	1235	87	95	38
16	M2A(2)	MEXICO	1100	81	80	36
19	IRA-CAL	MEXICO	1092	79	90	35
18	IA-BULK E2	MEXICO	935	79	85	36
17	IRA(2)	MEXICO	928	81	85	30
1	YOREME TC75	MEXICO	-	81	92	-

GRAND MEAN 1645.5 82.5 89.2 37.6
 STANDARD ERROR OF GRAND MEAN
 COEFFICIENT OF VARIATION AS PC
 LSD VARIETY MEANS 5 PC

CORRELATIONS			
YIELD KG/HA	FLOW DAYS	0.11	
PLNT HT	1000 G.W.	-0.09	-0.03
		0.20	0.08 0.32

9TH ITYN

TABLE 37

IRAN

PARS

DARAB

H. AMIN

LATITUDE 54 55'N

DATE PLANTED

11/15/77

LONGITUDE 28 29'E

DATE HARVESTED

5/29/78

ELEVATION 1100 M.ABOVE S.L.

AMOUNT OF MOISTURE

256 MM

NITROGEN
PHOSPHORUS
POTASSIUMAPPLIED
APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL.

TEQUILA BARLEY HAD 90% BIRD DAMAGE.

LOCAL CHECK: ROSHAN

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
8	YOCO(RESEL)	MEXICO	10989	129	178	5MR	125	41
5	NACUZARI (BREAD WHEAT)	MEXICO	9213	126	174	5MS	97	43
9	LINCE	MEXICO	9213	128	175	0	120	44
11	F.S.1897	MEXICO	9102	128	175	0	127	50
13	MAYA I-ARM	MEXICO	9102	124	176	0	117	42
14	M2A-IRA	MEXICO	8880	126	176	0	116	44
12	OCTO BULK - BUSH	MEXICO	8769	128	176	0	119	48
21	BEAGLE	MEXICO	8769	124	179	0	148	53
19	IRA-CAL	MEXICO	8658	114	172	0	110	41
17	IRA(2)	MEXICO	8658	113	172	0	107	42
23	73UM8518	CANADA	8658	125	177	0	132	45
20	SIETE CERROS (BREAD WHEAT)	MEXICO	8325	127	178	10MR	90	42
15	CINNAMON	MEXICO	8214	127	176	0	120	51
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	8214	128	175	0	110	59
22	DRIRA	MEXICO	8103	126	179	0	131	50
4	BACUM	MEXICO	7992	122	175	0	104	45
7	RAHUM	MEXICO	7992	125	175	0	113	45
6	MAPACHE	MEXICO	7770	124	177	0	120	44
16	M2A(2)	MEXICO ***	7540	118	171	0	105	41
2	NAVOJOA	MEXICO	7215	120	179	0	107	45
18	IA-BULK E2	MEXICO	6993	115	175	0	100	43
1	YOREME TC75	MEXICO	6882	120	179	5MR	80	51
3	ARABIAN	MEXICO	6882	122	177	0	105	45
25	LOCAL CHECK		6771	132	174	80S	120	49
24	TEQUILA (BARLEY)	MEXICO	6105	112	165	0	100	42

GRAND MEAN 8200.7 123.3 175.4 5.1 113.6 46.0
 STANDARD ERROR OF GRAND MEAN 197.2 0.4
 COEFFICIENT OF VARIATION AS PC 20.0 7.0
 LSD VARIETY MEANS 5 PC 2803.7 5.3

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
	0.44				
	0.29	0.53			
	-0.16	0.36	-0.11		
	0.43	0.41	0.21	-0.04	
	-0.10	0.41	0.30	0.04	0.31

9TH ITYM

TABLE 38

MIDDLE EAST

IRAQ

BAGHDAD

ABU'GHRAIB

CEREAL STAFF

LATITUDE 033 20'N

DATE PLANTED 12/ 1/77

LONGITUDE 044 24'E

DATE HARVESTED 5/16/78

ELEVATION 0034 M.ABOVE S.L. AMOUNT OF MOISTURE 110 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.

WEED AND BIRD PROBLEMS.

LOCAL CHECK: MEXIPAK

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLMT HT
5	NACQZARI (BREAD WHEAT)	MEXICO	2311	99	142	89
13	MAYA I-ARM	MEXICO	2106	104	142	74
4	BACUM	MEXICO	2102	95	139	94
6	MAPACHE	MEXICO	2060	97	139	83
1	YOREME TC75	MEXICO	2060	97	140	91
18	IA-BULK E2	MEXICO	1978	99	138	80
2	NAVOJOA	MEXICO	1962	98	140	89
24	TEQUILA (BARLEY)	MEXICO	1938	101	132	71
9	LINCE	MEXICO	1826	101	137	78
11	F.S.1897	MEXICO	1824	102	142	87
8	YOCO(RESEL)	MEXICO	1693	103	139	82
3	ARABIAN	MEXICO	1689	101	141	78
15	CINNAMON	MEXICO	1615	101	140	87
12	OCTO BULK - BUSH	MEXICO	1567	102	142	89
7	RABUM	MEXICO	1389	102	142	83
14	M2A-IRA	MEXICO	1371	102	139	83
17	IRA(2)	MEXICO	1371	101	137	83
23	73UM8518	CANADA	1144	105	143	72
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1127	105	141	75
19	IRA-CAL	MEXICO	1124	101	134	81
16	M2A(2)	MEXICO	1115	100	131	69
22	DRIRA	MEXICO	1022	102	142	81
20	SIETE CERROS (BREAD WHEAT)	MEXICO	993	105	144	86
25	LOCAL CHECK		924	103	136	63
21	BEAGLE	MEXICO	884	104	142	86

GRAND MEAN 1567.8 101.2 139.4 81.4
 STANDARD ERROR OF GRAND MEAN 1.4
 COEFFICIENT OF VARIATION AS PC 14.6
 LSD VARIETY MEANS 5 PC 19.6

CORRELATIONS

YIELD KG/HA				
FLOW DAYS	-0.65			
MAT DAYS	0.02	0.30		
PLMT HT	0.39	-0.45	0.46	

9TH ITYN

TABLE 39

MIDDLE EAST

ISRAEL

BET DAGAN

VOLCANI CENTRE

A.R.O.

LATITUDE 029 30'N

DATE PLANTED 11/28/77

NITROGEN

APPLIED

LONGITUDE 034 17'E

DATE HARVESTED 6/5/78

PHOSPHORUS

APPLIED

ELEVATION 0030 M.ABOVE S.L.

AMOUNT OF MOISTURE 485 MM

POTASSIUM

--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. CHEMICAL CONTROL OF WEEDS.

LAKHISH 1568

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT	1000 G.W.
6	MAPACHE	MEXICO	4222	67	84	----	128	43
5	MACOZARI (BREAD WHEAT)	MEXICO	4185	79	98	TS	95	37
9	LINCE	MEXICO	4185	70	84	----	113	45
13	MAYA I-ARM	MEXICO	4148	69	85	----	107	41
14	M2A-IRA	MEXICO	4800	68	82	----	118	47
22	DRIRA	MEXICO	4800	67	92	----	133	56
16	M2A(2)	MEXICO	3944	67	86	----	118	44
19	IRA-CAL	MEXICO	3987	71	81	----	102	40
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3814	76	85	10VS	95	48
11	F.S.1897	MEXICO	3814	72	85	----	125	45
15	CINNAMON	MEXICO	3814	68	85	TR	108	45
2	NAVOJOA	MEXICO	3722	71	84	10VS	105	44
3	ARABIAN	MEXICO	3703	70	85	10VS	103	43
12	OCTO BULK - BUSH	MEXICO	3685	72	89	----	112	43
21	BEAGLE	MEXICO	3592	69	87	----	140	49
7	RAHUM	MEXICO	3592	72	83	----	118	47
8	YOCO(RESEL)	MEXICO	3574	78	88	TS	110	41
4	BACUM	MEXICO ***	3500	71	83	----	108	42
25	LOCAL CHECK		3370	80	87	10VS	102	46
18	IA-BULK B2	MEXICO	3352	73	80	10S	105	45
17	IRA(2)	MEXICO	3277	68	82	----	103	42
23	73UM8518	CANADA	3055	65	95	----	118	43
1	YOREME TC75	MEXICO	2878	69	85	10VS	108	45
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2444	75	94	50VS	97	38
24	TEQUILA (BARLEY)	MEXICO	1963	61	91	----	93	31

GRAND MEAN	3589.3	70.4	86.1	11.2	109.7	43.2
STANDARD ERROR OF GRAND MEAN	38.7	0.1			0.4	0.2
COEFFICIENT OF VARIATION AS PC	9.3	1.6			3.1	3.2
LSD VARIETY MEANS 5 PC	550.4	1.9			5.5	2.3

CORRELATIONS

YIELD KG/HA						
TEST WT	0.21					
FLOW DAYS	-0.40	-0.08				
LEAF RUST	-0.74	0.19	0.53			
PLNT HT	0.32	-0.30	0.06	-0.19		
1000 G.W.	0.55	0.01	-0.28	-0.69	0.65	

MIVHOR FARM

HAZERA SEEDS LTD.

LATITUDE 031 37'N

DATE PLANTED 11/ 6/77

LONGITUDE 034 47'E

DATE HARVESTED 6/22/78

ELEVATION 0120 M.ABOVE S.L.

AMOUNT OF MOISTURE 463 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

INEFFECTIVE RAIN MID-OCTOBER. ALMOST NO RAIN IN NOVEMBER.

NEGLECTIBLE DISEASE DEVELOPMENT. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: HAZERA 895 (BREAD WHEAT)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	LODG %	1000 G.W.
5	NACQZARI (BREAD WHEAT)	MEXICO	7692	82	93	96	27	42
2	NAVOJOA	MEXICO	7691	75	91	102	0	47
13	MAYA I-ARM	MEXICO	7618	74	88	105	42	43
18	IA-BULK B2	MEXICO	7494	72	85	110	48	44
6	MAPACHE	MEXICO	7445	71	89	113	2	47
15	CINNAMON	MEXICO	7328	70	90	101	0	47
19	IRA-CAL	MEXICO	7240	72	86	96	15	44
16	M2A(2)	MEXICO	7212	68	90	103	0	46
21	BEAGLE	MEXICO	7092	69	98	131	17	48
20	SIETE CERROS (BREAD WHEAT)	MEXICO	7074	76	99	99	32	35
11	F.S.1097	MEXICO	7042	74	89	119	33	46
3	ARABIAN	MEXICO	6905	73	92	102	0	46
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	6845	80	91	91	80	56
22	DRIRA	MEXICO	6809	67	100	125	7	56
7	RAHUM	MEXICO	6795	72	90	120	45	44
1	YOREME TC75	MEXICO	6771	73	90	102	0	53
8	YOCO(RESEL)	MEXICO	6689	73	98	109	0	43
14	M2A-IRA	MEXICO	6602	71	86	105	60	45
12	OCTO BULK - BUSH	MEXICO	6612	74	99	109	3	48
17	IRA(2)	MEXICO	6573	71	86	99	22	45
9	LINCE	MEXICO	6360	70	93	111	0	43
25	LOCAL CHECK	***	6050	80	85	90	2	38
24	TEQUILA (BARLEY)	MEXICO	5941	66	109	94	13	40
4	BACUM	MEXICO	5786	73	86	106	93	47
23	73UM8510	CANADA	4480	65	106	114	22	40

GRAND MEAN	6809.4	72.5	92.4	106.1	22.5	45.3
STANDARD ERROR OF GRAND MEAN	82.2	0.2		0.4		0.2
COEFFICIENT OF VARIATION AS PC	10.4	2.4		3.1		3.7
LSD VARIETY MEANS 5 PC	1169.6	2.8		5.3		2.7

YIELD KG/HA		CORRELATIONS					
TEST	WT	0.36					
FLOW	DAYS	-0.44	-0.41				
PLNT	HT	-0.02	-0.48	0.22			
LODG	%	-0.11	0.24	-0.29	-0.05		
1000	G.W.	0.21	-0.06	-0.13	0.25	0.09	

IZRAA A.R.S.

L.R. MORSI ET AL

LATITUDE 033 31'N

DATE PLANTED 11/14/77

LONGITUDE 036 37'E

DATE HARVESTED --/--/--

ELEVATION 0575 M.ABOVE S.L.

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.
1	YOREME TC75	MEXICO	2668	99	155	87	31
22	DRIRA	MEXICO	2533	99	156	109	36
3	ARABIAN	MEXICO	2480	95	152	89	32
21	BEAGLE	MEXICO	2448	98	154	115	32
14	M2A-IRA	MEXICO	2368	96	154	92	32
19	IRA-CAL	MEXICO	2348	91	152	91	31
25	LOCAL CHECK		2341	108	154	96	31
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2300	99	151	81	40
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2250	98	153	83	30
13	MAYA I-ARM	MEXICO	2243	98	156	92	29
11	F.S.1897	MEXICO	2190	98	156	109	32
2	NAVOJOA	MEXICO	2188	97	154	96	30
7	RAHUM	MEXICO	2182	95	154	96	31
4	BACUM	MEXICO	2172	95	154	93	30
16	M2A(2)	MEXICO	2061	99	155	102	30
12	OCTO BULK - BUSH	MEXICO	2042	100	155	91	35
23	73UM8518	CANADA	2001	108	156	90	31
18	IA-BULK E2	MEXICO	1966	95	137	95	29
9	LINCE	MEXICO	1918	98	155	97	32
5	MACOZARI (BREAD WHEAT)	MEXICO	1903	101	153	83	30
24	TEQUILA (BARLEY)	MEXICO	1886	95	147	79	35
15	CINNAMON	MEXICO ***	1864	96	155	94	25
8	YOCO(RESEL)	MEXICO	1841	97	154	88	29
17	IRA(2)	MEXICO	1701	96	154	101	28
6	MAPACHE	MEXICO	1599	97	154	94	29
GRAND MEAN			2139.9	97.9	153.2	93.8	31.3
STANDARD ERROR OF GRAND MEAN			45.7				
COEFFICIENT OF VARIATION AS PC			18.5				
LSD VARIETY MEANS 5 PC			649.9				

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
0.04				
0.16	0.31			
0.15	0.02	0.25		
0.40	0.13	-0.04	-0.12	

9TH ITYM

TABLE 42

MIDDLE EAST

TURKEY

IZMIR

I.A.G.P.B.
EGE UNIVERSITY

LATITUDE 038 27'N

LONGITUDE 027 14'E

ELEVATION 0010 M.ABOVE S.L.

DATE PLANTED 11/ 5/77

DATE HARVESTED 6/22/78

AMOUNT OF MOISTURE 803 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NOT REPORTED. NEGLIGIBLE DISEASE DEVELOPMENT.

NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.
5	NACQZARI (BREAD WHEAT)	MEXICO	1923	84	116	88	44
4	BACUM	MEXICO	1900	75	110	104	52
6	MAPACHE	MEXICO	1700	71	113	103	49
19	IRA-CAL	MEXICO	1685	74	110	94	52
1	YOREME TC75	MEXICO	1569	74	112	97	56
7	RAHUM	MEXICO	1556	72	109	100	46
2	NAVOJOA	MEXICO	1544	76	111	96	48
11	F.S.1897	MEXICO	1535	76	111	119	47
13	MAYA I-ARM	MEXICO	1529	74	113	99	47
22	DRIRA	MEXICO	1510	71	124	109	56
8	YOCO(RESEL)	MEXICO	1504	75	112	98	53
12	OCTO BULK - BUSH	MEXICO	1492	76	113	107	50
23	73UM8518	CANADA	1471	70	127	90	49
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1452	84	129	90	43
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1446	81	120	94	57
24	TEQUILA (BARLEY)	MEXICO	1440	66	125	81	38
9	LINCE	MEXICO	1433	71	111	101	47
14	M2A-IRA	MEXICO	1413	69	109	98	49
16	M2A(2)	MEXICO	1394	67	110	97	45
21	BEAGLE	MEXICO	1363	69	113	119	51
3	ARABIAN	MEXICO	1331	74	112	102	49
15	CINNAMON	MEXICO ***	1142	71	109	99	49
18	IA-BULK E2	MEXICO	1121	74	108	97	44
17	IRA(2)	MEXICO	879	70	100	98	44
25	LOCAL CHECK		-	-	-	-	-

GRAND MEAN	1472.1	73.5	114.0	99.1	48.4
STANDARD ERROR OF GRAND MEAN	43.4	0.2		0.4	0.4
COEFFICIENT OF VARIATION AS PC	25.0	1.9		3.8	6.4
LSD VARIETY MEANS 5 PC	605.9	2.3		6.2	5.1

CORRELATIONS					
YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.	
	0.38				
	0.16	0.21			
	-0.04	-0.14	-0.38		
	0.23	0.13	-0.07	0.40	

9TH ITYM

TABLE 43 MIDDLE EAST

YEMEN

SANA'A

BIRR A SHEIF

MIN OF AGR. FARM

LATITUDE 015 23'

LONGITUDE 044 13'

ELEVATION 235 M.ABOVE S.L.

DATE PLANTED 6/14/78

DATE HARVESTED --/--/--

AMOUNT OF MOISTURE 150 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 WEATHER NORMAL. SLIGHT DISEASE INCIDENCE.
 CHEMICAL CONTROL OF INSECTS.
 LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STEM RUST	PLNT HT
11	F.S.1897	MEXICO	2641	59	118	0	80
14	M2A-IRA	MEXICO	2611	59	127	0	68
21	BEAGLE	MEXICO	2599	66	138	5MS	77
8	YOCO (RESEL)	MEXICO	2527	65	116	TR	67
12	OCTO BULK - BUSH	MEXICO	2352	61	121	0	65
3	ARABIAN	MEXICO	2235	62	134	0	67
4	BACUM	MEXICO	2053	58	112	--	65
6	MAPACHE	MEXICO	1983	60	122	--	67
23	73UM8518	CANADA	1977	76	139	0	64
2	NAVOJOA	MEXICO	1937	60	120	TR	65
13	MAYA I-ARM	MEXICO ***	1742	61	113	0	66
22	DRIRA	MEXICO	1702	65	130	0	72
1	YOREME TC75	MEXICO	1553	61	116	0	60
16	M2A (2)	MEXICO	1551	61	109	TR	63
5	NACUZARI (BREAD WHEAT)	MEXICO	1499	65	110	TR	50
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1418	64	111	10MS	64
9	LINCE	MEXICO	1292	62	127	TR	65
15	CINNAMON	MEXICO	1204	60	119	--	67
18	IA-BULK E2	MEXICO	1129	58	111	0	66
7	RAHUM	MEXICO	1090	64	122	0	62
17	IRA (2)	MEXICO	978	58	106	10MR	64
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	874	64	103	20MS	55
19	IRA-CAL	MEXICO	795	63	106	5MS	57
25	LOCAL CHECK		764	55	96	5MS	44
24	TEQUILA (BARLEY)	MEXICO	-	63	102	40MS	55
GRAND MEAN			1691.2	61.9	116.7	7.1	64.0
STANDARD ERROR OF GRAND MEAN			49.7				0.7
COEFFICIENT OF VARIATION AS PC			24.9				9.3
LSD VARIETY MEANS 5 PC			694.5				9.8

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	STEM RUST	PLNT HT
0.17	0.62	0.52	-0.46	0.71
0.62	0.52	-0.22	0.13	0.69
0.52	-0.22	-0.64	0.13	-0.71
-0.46	-0.22	-0.64	0.69	-0.71
0.71	0.13	0.69	-0.71	

AUSSEFERA

LATITUDE 13 00'N DATE PLANTED 12/ 6/77 NITROGEN ---
 LONGITUDE 42 30'E DATE HARVESTED --/--/-- PHOSPHORUS ---
 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 DAMAGE.
 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.
22	DRIRA	MEXICO	2844	64	141	0	0	65	44
21	BEAGLE	MEXICO	2611	63	140	5S	10S	65	42
7	RABUM	MEXICO	2533	53	129	0	0	75	40
12	OCTO BULK - BUSH	MEXICO	2444	59	136	0	0	60	44
5	MACOZARI (BREAD WHEAT)	MEXICO ***	2266	52	131	40MR	20S	80	44
6	MAPACHE	MEXICO	2244	51	134	0	0	60	40
3	ARABIAN	MEXICO	2222	54	138	20MR	10S	70	40
2	NAVOJQA	MEXICO	2189	53	134	60S	10S	70	36
15	CINNAMOM	MEXICO	2144	51	134	0	0	70	42
13	MAYA I-ARM	MEXICO	2144	53	136	0	0	85	34
4	BACUM	MEXICO	2133	49	130	20MR	10S	75	40
16	M2A(2)	MEXICO	2066	53	134	0	0	65	38
8	YOCO(RESEL)	MEXICO	2011	55	134	10S	0	80	36
1	YORENE TC75	MEXICO	1933	51	134	40S	10S	70	40
9	LINCE	MEXICO	1889	53	134	0	0	60	34
14	M2A-IRA	MEXICO	1878	49	140	0	0	75	38
11	F.S.1897	MEXICO	1755	52	140	5MR	0	65	38
23	75UM8518	CANADA	1711	65	144	0	0	90	34
18	IA-BULK E2	MEXICO	1633	52	136	40S	20S	60	34
17	IRA(2)	MEXICO	1555	48	130	40S	5S	70	32
19	IRA-CAL	MEXICO	1522	52	129	60S	80S	60	36
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1511	54	126	100S	100S	60	28
24	TEQUILA (BARLEY)	MEXICO	1222	63	131	10MR	20S	80	44
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	967	53	133	100S	100S	75	42
25	LOCAL CHECK		633	51	127	100S	100S	80	42

GRAND MEAN 1922.5 54.1 134.2 23.7 19.8 70.6 38.5
 STANDARD ERROR OF GRAND MEAN 32.7
 COEFFICIENT OF VARIATION AS PC 14.7
 LSD VARIETY MEANS 5 PC 465.3

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.
	0.24					
	0.42	0.49				
	-0.69	-0.27	-0.56			
	-0.71	-0.14	-0.57	0.90		
	-0.21	0.14	0.08	-0.08	-0.06	
	0.23	0.26	0.12	-0.25	-0.11	0.12

9TH ITYM

TABLE 45 NORTH AMERICA

CANADA

MANITOBA

WINNIPEG

UNIV OF MANITOBA

LATITUDE 049 58'N

DATE PLANTED 5/18/78

LONGITUDE 097 07'W

DATE HARVESTED 9/ 6/78

ELEVATION 0235 M.ABOVE S.L.

AMOUNT OF MOISTURE 261 MM

NITROGEN ---

PHOSPHORUS ---

POTASSIUM ---

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NOT REPORTED.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: GLENLEA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	MAT DAYS	PLNT HT	1000 G.W.	PROT %
25	LOCAL CHECK		4222	76	104	90	48	15
11	F.S.1897	MEXICO	4013	58	104	80	35	15
6	MÁPACHE	MEXICO	3444	58	104	78	38	14
23	73UM8518	CANADA	3277	51	104	88	30	15
7	RAHUM	MEXICO	3208	53	94	76	27	15
4	BACUM	MEXICO ***	3166	62	94	76	35	14
24	TEQUILA (BARLEY)	MEXICO	2972	53	94	52	42	14
3	ARABIAN	MEXICO	2944	55	105	70	31	15
8	YOCO(RESEL)	MEXICO	2888	60	104	76	35	14
21	BEAGLE	MEXICO	2833	56	104	90	33	14
18	IA-BULK E2	MEXICO	2722	55	104	70	30	17
14	M2A-IRA	MEXICO	2687	55	104	64	36	15
15	CINNAMON	MEXICO	2680	52	104	70	33	15
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2666	69	94	64	48	15
2	NAVOJOA	MEXICO	2604	58	104	78	29	14
13	MAYA I-ARM	MEXICO	2361	54	94	70	26	15
5	NACUZARI (BREAD WHEAT)	MEXICO	2319	70	94	64	29	15
22	DRIRA	MEXICO	2305	55	104	90	38	14
16	M2A(2)	MEXICO	2305	56	94	74	33	15
1	YOREME TC75	MEXICO	2229	53	104	74	30	16
12	OCTO BULK - BUSH	MEXICO	2180	62	104	80	34	14
9	LINCE	MEXICO	2111	51	104	72	28	16
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2083	69	94	64	28	14
17	IRA(2)	MEXICO	2041	55	94	62	30	16
19	IRA-CAL	MEXICO	1882	58	104	68	28	15

GRAND MEAN 2725.7 58.2 100.4 73.6 33.0 14.7
 STANDARD ERROR OF GRAND MEAN 64.4
 COEFFICIENT OF VARIATION AS PC 20.5
 LSD VARIETY MEANS 5 PC 915.9

CORRELATIONS

YIELD KG/HA	TEST WT	MAT DAYS	PLNT HT	1000 G.W.	PROT %
		0.20			
		0.20	-0.23		
		0.42	0.03	0.53	
		0.57	0.42	0.12	0.18
		-0.15	-0.25	0.06	-0.23 -0.32

LATITUDE 043 00'N DATE PLANTED 5/ 4/78
 LONGITUDE 088 25'W DATE HARVESTED 8/16/78
 ELEVATION 0333 M.ABOVE S.L. AMOUNT OF MOISTURE 180 MM

NITROGEN ---
 PHOSPHORUS ---
 POTASSIUM ---

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 VERY DRY MID TO LATE SEASON
 NO INSECT, WEED OR BIRD PROBLEMS.
 LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G.W.
21	BEAGLE	MEXICO	4018	51	56	97	50
25	LOCAL CHECK		3964	52	55	100	51
12	OCTO BULK - BUSH	MEXICO	3933	54	56	85	44
9	LINCE	MEXICO	3696	50	58	83	39
5	NACQZARI (BREAD WHEAT)	MEXICO	3573	60	55	75	34
11	F.S.1897	MEXICO	3550	53	55	90	40
15	CINNAMON	MEXICO	3516	51	55	83	41
13	MAYA I-ARM	MEXICO	3470	52	54	77	39
8	YOCO(RESEL)	MEXICO	3466	52	59	76	38
22	DRIRA	MEXICO	3413	51	58	93	56
2	NAVOJOA	MEXICO	3378	52	55	80	40
3	ARABIAN	MEXICO	3351	52	55	76	44
7	RAHUM	MEXICO	3313	50	55	85	39
18	IA-BULK E2	MEXICO	3301	52	54	77	39
23	73UM8518	CANADA ***	3259	52	58	95	34
6	MAPACHE	MEXICO	3210	50	55	92	39
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3148	60	57	80	35
19	IRA-CAL	MEXICO	3137	54	54	75	36
14	M2A-IRA	MEXICO	3125	51	54	78	37
4	BACUM	MEXICO	3118	52	54	82	32
1	YOREME TC75	MEXICO	2976	50	55	77	39
17	IRA(2)	MEXICO	2873	49	54	77	34
16	M2A(2)	MEXICO	2670	49	56	77	40
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2417	60	56	75	45
24	TEQUILA (BARLEY)	MEXICO	2149	45	49	63	34

GRAND MEAN 3280.9 52.2 55.3 81.9 40.0
 STANDARD ERROR OF GRAND MEAN 44.2 0.4
 COEFFICIENT OF VARIATION AS PC 11.7 3.9
 LSD VARIETY MEANS 5 PC 628.8 5.2

YIELD KG/HA		CORRELATIONS				
TEST	WT	0.15				
FLOW	DAYS	0.46	0.35			
PLNT	HT	0.66	-0.00	0.49		
1000	G.W.	0.42	-0.00	0.32	0.55	

9TH ITYN

TABLE 47 NORTH AMERICA

CANADA

P.E.I.

CHARLOTTETOWN

H.G. MASS

LATITUDE 046 17'N DATE PLANTED 5/ 9/78

LONGITUDE 063 05'W DATE HARVESTED 9/ 1/78

ELEVATION 0015 M.ABOVE S.L. AMOUNT OF MOISTURE 258 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

EARLY SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 BELOW NORMAL PRECIPITATION
 NO INSECT, WEED OR BIRD PROBLEMS.
 LOCAL CHECK: VERON SPRING WHEAT.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	1000 G.W.
21	BEAGLE	MEXICO	4158	56	57	110	45
24	TEQUILA (BARLEY)	MEXICO	3672	59	51	100	41
25	LOCAL CHECK		3646	70	63	107	34
23	73UM0518	CANADA	3626	54	59	111	42
16	M2A(2)	MEXICO	3339	57	57	104	37
15	CINNAMON	MEXICO	3156	58	55	105	42
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3039	75	60	105	28
8	YOCO(RESEL)	MEXICO	3035	56	59	105	33
12	OCTO BULK - BUSH	MEXICO	2999	61	57	106	41
3	ARABIAN	MEXICO	2964	56	56	107	37
6	MAPACHE	MEXICO	2954	57	56	104	37
11	F.S.1897	MEXICO	2933	59	54	105	37
22	DRIRA	MEXICO	2888	51	60	107	45
13	MAYA I-ARM	MEXICO	2866	61	53	105	34
19	IRA-CAL	MEXICO	2845	62	52	104	36
7	RAHUN	MEXICO	2794	57	54	105	35
14	M2A-IRA	MEXICO	2789	57	52	104	36
1	YOREME TC75	MEXICO	2677	56	56	108	40
2	NAVOJOA	MEXICO	2639	58	56	104	35
9	LINCE	MEXICO	2617	55	55	105	35
5	NACQZARI (BREAD WHEAT)	MEXICO	2541	74	56	101	34
17	IRA(2)	MEXICO	2496	59	52	103	33
18	IA-BULK E2	MEXICO	2335	58	52	102	36
4	BACUM	MEXICO	1805	68	53	104	36
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1299	68	55	102	33

GRAND MEAN 2884.5 59.6 55.6 104.9 36.0
 STANDARD ERROR OF GRAND MEAN
 COEFFICIENT OF VARIATION AS PC
 LSD VARIETY MEANS 5 PC

YIELD KG/HA		CORRELATIONS			
TEST	WT	-0.20			
FLOW	DAYS	0.38	0.19		
MAT	DAYS	0.50	-0.37	0.57	
1000	G.W.	0.46	-0.63	0.05	0.47

9TH ITYN

TABLE 48

NORTH AMERICA

MEXICO

GUAMAJUATO

EL BAJIO

R. URBINA

LATITUDE 020 32'N

LONGITUDE 100 49'W

ELEVATION 1765 M.ABOVE S.L.

DATE PLANTED 11/12/77

DATE HARVESTED ---/---/---

AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM ---

SOWING DATE NOT REPORTED. SOIL DRY AT SOWING. GERMINATION GOOD.
 WEATHER NOT REPORTED. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
 LOCAL CHECK: MAYAII*ARM-S

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	9146	75	86	134	TR
25	LOCAL CHECK	***	8036	60	100	136	TR
9	LINCE	MEXICO	7974	61	100	138	TR
14	M2A-IRA	MEXICO	7968	60	90	134	TR
7	RAHUM	MEXICO	7659	61	102	138	0
18	IA-BULK E2	MEXICO	7603	62	88	134	TR
19	IRA-CAL	MEXICO	7560	64	86	134	TR
17	IRA(2)	MEXICO	7511	58	90	134	TR
6	MAPACHE	MEXICO	7505	59	94	138	TR
5	NACAZARI (BREAD WHEAT)	MEXICO	7499	70	92	134	SMR
21	BEAGLE	MEXICO	7492	61	92	138	TR
13	MAYA I-ARM	MEXICO	7418	61	96	136	0
2	NAVOJOA	MEXICO	7141	62	101	138	TR
11	F.S.1897	MEXICO	7042	63	94	138	0
15	CINNAMON	MEXICO	7017	56	106	140	TR
3	ARABIAN	MEXICO	6721	61	100	138	TR
12	OCTO BULK - BUSH	MEXICO	6641	57	106	140	TR
16	M2A(2)	MEXICO	6511	55	108	142	TR
24	TEQUILA (BARLEY)	MEXICO	5851	55	88	132	40S
8	YOCO(RESEL)	MEXICO	5814	55	106	140	TR
22	DRIRA	MEXICO	5709	53	106	144	TR
1	YOREME TC75	MEXICO	5622	60	100	134	TR
4	BACUM	MEXICO	5277	62	96	134	TS
20	SIETE CERROS (BREAD WHEAT)	MEXICO	5061	67	90	136	60S
23	73UM8518	CANADA	4765	50	106	142	0

GRAND MEAN 6901.7 60.3 96.9 137.0 4.3
 STANDARD ERROR OF GRAND MEAN 66.6
 COEFFICIENT OF VARIATION AS FC 8.4
 LSD VARIETY MEANS 5 PC 947.3

YIELD KG/HA		CORRELATIONS			
TEST	WT	0.54			
FLOW	DAYS	-0.39	-0.66		
MAT	DAYS	-0.31	-0.59	0.83	
LEAF	RUST	-0.42	0.12	-0.32	-0.26

9TH ITYM

TABLE 49 NORTH AMERICA

MEXICO

EDO. DE MEXICO

ATIZAPAN

CIMMYT

LATITUDE 019 16'N

DATE PLANTED 5/ 8/78

LONGITUDE 099 51'W

DATE HARVESTED 10/19/78

ELEVATION 2640 M.ABOVE S.L.

AMOUNT OF MOISTURE 949 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

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

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLMT HT
15	CINNAMON	MEXICO	5083	59	71	117
18	IA-BULK E2	MEXICO	4758	59	66	122
1	YOREME TC75	MEXICO	4391	57	71	127
13	MAYA I-ARM	MEXICO	4363	56	71	125
16	M2A(2)	MEXICO	4319	54	71	117
12	OCTO BULK - BUSH	MEXICO	4230	57	77	125
14	M2A-IRA	MEXICO	4174	57	65	122
3	ARABIAN	MEXICO	4147	56	73	123
17	IRA(2)	MEXICO	4119	57	66	118
21	BEAGLE	MEXICO	4030	55	77	130
25	LOCAL CHECK		4029	57	88	113
2	NAVOJOA	MEXICO	3955	59	71	122
5	NACQZARI (BREAD WHEAT)	MEXICO	3913	64	67	95
4	BACUM	MEXICO	3722	57	66	122
19	IRA-CAL	MEXICO ***	3516	57	67	115
11	F.S.1897	MEXICO	3438	56	67	143
9	LINCE	MEXICO	3427	53	72	118
6	MAPACHE	MEXICO	3266	54	70	130
8	YOCO(RESEL)	MEXICO	3141	57	79	125
23	73UM8518	CANADA	3081	52	80	132
7	RAHUM	MEXICO	2963	53	72	140
22	DRIRA	MEXICO	2429	53	81	155
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1730	67	71	90
20	SIETE CERROS (BREAD WHEAT)	MEXICO	900	57	77	102
24	TEQUILA (BARLEY)	MEXICO	728	49	63	92

GRAND MEAN 3514.1 56.4 72.0 121.5
 STANDARD ERROR OF GRAND MEAN 87.8 0.2
 COEFFICIENT OF VARIATION AS PC 21.6 3.2
 LSD VARIETY MEANS 5 PC 1248.6 3.0

CORRELATIONS
 YIELD KG/HA
 TEST WT 0.20
 FLOW DAYS -0.06 -0.12
 PLMT HT 0.32 -0.43 0.30

EL BATAN

CIMMYT

LATITUDE 819 31'N

DATE PLANTED 5/18/78

LONGITUDE 898 58'W

DATE HARVESTED 10/25/78

ELEVATION 2249 M. ABOVE S.L.

AMOUNT OF MOISTURE 1835 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NOT REPORTED. DISEASE DEVELOPMENT NOT REPORTED.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: BACUM

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT
6	MAPACHE	MEXICO	5076	59	58	TR-MR	100
21	BEAGLE	MEXICO	4791	60	62	0	122
1	YOREME TC75	MEXICO	4652	60	59	5-2BS	93
9	LINCE	MEXICO	4617	55	60	TMR	95
12	OCTO BULK - BUSH	MEXICO	4478	61	63	TR-MR	103
4	BACUM	MEXICO	4409	60	52	TR-MR	97
13	MAYA I-ARM	MEXICO	4110	63	58	TMR	93
7	RAHUM	MEXICO	4027	57	60	0	98
18	IA-BULK E2	MEXICO	4013	61	57	TR-MR	98
8	YOCO(RESEL)	MEXICO	3930	56	62	TMS-MR	90
15	CINNAMON	MEXICO	3881	59	59	10MS-S	102
11	F.S. 1897	MEXICO	3742	65	57	TR-MR/TS	105
22	DRIRA	MEXICO	3617	55	61	TMR-R	112
25	LOCAL CHECK		3617	60	55	0	92
14	M2A-IRA	MEXICO	3534	58	51	TR-MR	93
19	IRA-CAL	MEXICO	3513	60	58	0	90
16	M2A(2)	MEXICO	3409	57	59	7MS	90
2	NAVOJOA	MEXICO	3347	62	58	5MS-MR	93
3	ARABIAN	MEXICO ***	2770	60	60	TMR-R	88
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2757	65	55	5MR-R	80
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2743	60	60	2MS	82
24	TEQUILA (BARLEY)	MEXICO	2590	48	50	5MS	63
23	73UM8518	CANADA	2507	52	63	0	103
17	IRA(2)	MEXICO	2409	58	52	10MS-MR	78
5	NACUZARI (BREAD WHEAT)	MEXICO	2194	65	50	5S-MS	78

GRAND MEAN	3629.4	59.4	57.5	4.5	93.6
STANDARD ERROR OF GRAND MEAN	105.7	0.3			0.6
COEFFICIENT OF VARIATION AS PC	25.2	3.8			5.9
LSD VARIETY MEANS 5 PC	1502.2	3.7			9.1

YIELD KG/HA		CORRELATIONS			
TEST	WT	-0.00			
FLOW	DAYS	0.38	-0.04		
LEAF	RUST	-0.38	-0.15	-0.27	
PLNT	HT	0.65	0.04	0.61	-0.60

CIANO (1ST DATE)

CIMMYT

LATITUDE 027 20'N

DATE PLANTED 11/18/77

LONGITUDE 109 54'W

DATE HARVESTED ---/---/---

ELEVATION 0038 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

NITROGEN

APPLIED

PHOSPHORUS

APPLIED

POTASSIUM

--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
EARLY FLOWERING AND POOR TILLERING CAUSED BY EARLIER HIGH TEMPERATURES
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: BONGO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT
6	MAPACHE	MEXICO	5977	69	69	20MR-20S	97
12	OCTO BULK - BUSH	MEXICO	5945	74	78	50MS-S	103
22	DRIRA	MEXICO	5917	66	90	5R-MR	112
7	RAHUM	MEXICO	5916	74	750-50MS-MR		102
14	M2A-IRA	MEXICO	5887	71	68	30X	93
9	LINCE	MEXICO	5869	71	75	30MS-S	105
15	CINNAMON	MEXICO	5787	69	77	40S-MS	90
19	IRA-CAL	MEXICO	5742	73	71	30MS-MR	80
17	IRA(2)	MEXICO	5700	69	64	70S-MS	87
21	BEAGLE	MEXICO	5552	68	78TR/20S-MS		113
18	IA-BULK E2	MEXICO	5540	72	71	20S-MS	95
25	LOCAL CHECK		5540	71	76	10MR/80S	87
11	F.S.1897	MEXICO	5530	73	69	30-50S	105
16	M2A(2)	MEXICO	5520	68	76	50S-MS	97
13	MAYA I-ARM	MEXICO	5481	72	74	30S-MS	95
1	YOREME TC75	MEXICO	5474	71	71	00S	92
4	BACUM	MEXICO	5240	71	67	30S-MS	80
3	ARABIAN	MEXICO	5059	71	74	10S-MS	93
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	4960	80	63	20MS-S	82
8	YOCO(RESEL)	MEXICO ***	4767	70	77	30S-MS	97
2	NAVOJOA	MEXICO	4590	71	73	40MS-S	92
5	MACOZARI (BREAD WHEAT)	MEXICO	4407	79	74	30S-MS	78
23	73UM8518	CANADA	4113	64	90	10MS-10S	110
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4077	80	75	60S-MS	87
24	TEQUILA (BARLEY)	MEXICO	3942	57	92	0	80
GRAND MEAN			5306.4	71.0	74.6	31.4	95.0
STANDARD ERROR OF GRAND MEAN			64.0	0.0			0.4
COEFFICIENT OF VARIATION AS PC			10.4	1.0			4.1
LSD VARIETY MEANS 5 PC			909.0	1.1			6.4

CORRELATIONS						
YIELD	KG/HA					
TEST	WT	0.07				
FLOW	DAYS	-0.36	-0.64			
LEAF	RUST	0.15	0.26	-0.40		
PLNT	HT	0.40	-0.28	0.37	0.02	

9TH ITYN

TABLE 52 NORTH AMERICA

MEXICO

SONORA

CIANO (2ND DATE)

CIMMYT

LATITUDE 027 20'N

DATE PLANTED 11/28/77

LONGITUDE 109 54'W

DATE HARVESTED --/--/--

ELEVATION 0030 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
EARLY FLOWERING AND POOR TILLERING CAUSED BY EARLIER HIGH TEMPERATURES.
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: BOMBO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST
18	IA-BULK E2	MEXICO	6071	72	69	30MS-MR
14	M2A-IRA	MEXICO	5737	72	66	20S-MS
6	MAPACHE	MEXICO	5694	69	69	5MR
11	F.S.1897	MEXICO	5553	72	69	10S
17	IRA(2)	MEXICO	5544	71	64	70S-MS
12	OCTO BULK - BUSH	MEXICO	5514	72	82	80S
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	5424	81	62	20MS-S
7	RAHUM	MEXICO	5349	71	72	8-5MR
13	MAYA I-ARM	MEXICO	5327	71	72	5S-MS
2	NAVOJOA	MEXICO	5327	71	73	40S-MS
4	BACUM	MEXICO	5256	71	68	10MS-MR
24	TEQUILA (BARLEY)	MEXICO	5224	61	92	0
25	LOCAL CHECK		5139	65	74	TMR
19	IRA-CAL	MEXICO	5095	73	67	40MS-MR
5	NAC0ZARI (BREAD WHEAT)	MEXICO ***	4988	80	68	40S
9	LINCE	MEXICO	4983	67	74	5S-MS
21	BEAGLE	MEXICO	4926	65	76	5MR-R
1	YOREME TC75	MEXICO	4883	69	70	90S
3	ARABIAN	MEXICO	4688	69	72	10MR-MS
16	M2A(2)	MEXICO	4628	66	74	20MR-R
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4605	78	70	70S
22	DRIRA	MEXICO	4566	64	91	5R-MR
15	CINNAMON	MEXICO	4522	66	72	40S-MS
8	YOCO(RESBL)	MEXICO	4295	66	83	20S-MS
23	73UM8518	CANADA	4176	65	93	5MR-MR

GRAND MEAN 5180.5 69.9 73.7 21.0
STANDARD ERROR OF GRAND MEAN 60.5 0.1
COEFFICIENT OF VARIATION AS PC 10.3 1.6
LSD VARIETY MEANS 5 PC 859.8 1.8

CORRELATIONS

YIELD KG/HA			
TEST WT	0.36		
FLOW DAYS	-0.51	-0.70	
LEAF RUST	-0.07	0.43	-0.36

9TH ITYN

TABLE 53 NORTH AMERICA

MEXICO

TLAXCALA

HUAMANTLA

C. LIMON

LATITUDE

LONGITUDE

ELEVATION

M.ABOVE S.L.

DATE PLANTED

5/28/78

DATE HARVESTED

10/24/78

AMOUNT OF MOISTURE

-- MM

NITROGEN

--

PHOSPHORUS

--

POTASSIUM

--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER NOT REPORTED. DISEASE DEVELOPMENT NOT REPORTED.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: BEAGLE

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS
14	M2A-IRA	MEXICO	4444	67	56
21	BEAGLE	MEXICO	4249	66	66
3	ARABIAN	MEXICO	4222	68	63
6	MAPACHE	MEXICO	3909	67	60
13	MAYA I-ARM	MEXICO	3888	69	60
2	NAVOJOA	MEXICO	3597	69	62
1	YOREME TC75	MEXICO	3499	68	62
11	F.S.1897	MEXICO	3472	69	60
19	IRA-CAL	MEXICO	3437	69	57
15	CINNAMOM	MEXICO	3409	68	60
8	YOCO(RESEL)	MEXICO	3388	69	64
22	DRIRA	MEXICO	3354	59	69
25	LOCAL CHECK		3319	67	67
18	IA-BULK E2	MEXICO	3312	66	57
16	M2A(2)	MEXICO	3118	65	61
9	LINCE	MEXICO	3104	65	62
4	BACUM	MEXICO	3034	68	56
23	73UM8518	CANADA	3000	66	65
7	RAHUM	MEXICO ***	2722	67	63
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2722	80	66
12	OCTO BULK - BUSH	MEXICO	2576	69	64
17	IRA(2)	MEXICO	2513	63	56
5	NACUZARI (BREAD WHEAT)	MEXICO	2486	75	59
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1715	73	58
24	TEQUILA (BARLEY)	MEXICO	544	49	54

GRAND MEAN	3161.2	67.2	61.0
STANDARD ERROR OF GRAND MEAN	84.1	0.1	
COEFFICIENT OF VARIATION AS PC	23.0	1.5	
LSD VARIETY MEANS 5 PC	1196.1	1.6	

CORRELATIONS			
YIELD	KG/HA		
TEST	WT	0.29	
FLOW	DAYS	0.30	0.20

9TH ITYH

TABLE 54 NORTH AMERICA

U.S.A.

ALABAMA

ALABAMA A.M.U.

G.C. SHARMA ET AL

LATITUDE 38 38'N

LONGITUDE 88 88'W

ELEVATION

M.ABOVE S.L.

DATE PLANTED

11/ 3/77

DATE HARVESTED

6/21/78

AMOUNT OF MOISTURE

688 MM

NITROGEN

PHOSPHORUS

POTASSIUM

APPLIED

APPLIED

APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

SEASON MAINLY CLOUDY, RAINY AND COOL.

NEGLIGIBLE DISEASE DEVELOPMENT. NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: FS 4843

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	PLNT HT
11	F.S. 1897	MEXICO	3847	73
22	DRIRA	MEXICO	2827	83
25	LOCAL CHECK		2633	88
21	BEAGLE	MEXICO ***	2593	87
4	BACUM	MEXICO	2436	78
23	73UM8518	CANADA	2422	81
3	ARABIAN	MEXICO	2871	66
12	OCTO BULK - BUSB	MEXICO	1897	66
19	IRA-CAL	MEXICO	1762	78
9	LINCE	MEXICO	1669	68
2	NAVOJOA	MEXICO	1611	72
7	RAHUM	MEXICO	1685	73
13	MAYA I-ANM	MEXICO	1591	78
8	YOCO (RESEL)	MEXICO	1546	66
18	IA-BULK E2	MEXICO	1448	67
6	MAPACHE	MEXICO	1446	73
1	YOREME TC75	MEXICO	1442	63
16	M2A (2)	MEXICO	1436	67
28	SIETE CERROS (BREAD WHEAT)	MEXICO	1438	68
14	M2A-IRA	MEXICO	1298	69
15	CINNANON	MEXICO	1175	64
5	NACQZARI (BREAD WHEAT)	MEXICO	1145	64
17	IRA (2)	MEXICO	1187	67
18	MEXICALI 75 (DURUM WHEAT)	MEXICO	389	58
24	TEQUILA (BARLEY)	MEXICO	-	57

GRAND MEAN	1758.8	69.7
STANDARD ERROR OF GRAND MEAN	28.9	8.9
COEFFICIENT OF VARIATION AS PC	14.8	18.6
LSD VARIETY MEANS 5 PC	482.6	12.2

CORRELATIONS

YIELD KG/HA	
PLNT HT	0.73

DAVIS (UNIV. CALIF.)

C.O. QUALSET ET AL

LATITUDE 038 32'N

DATE PLANTED 10/31/77

NITROGEN APPLIED

LONGITUDE 121 46'W

DATE HARVESTED 6/14/78

PHOSPHORUS --

ELEVATION 0018 M. ABOVE S.L.

AMOUNT OF MOISTURE 680 MM

POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WETTER THAN NORMAL DURING SEASON, PARTICULARLY IN JANUARY AND MARCH.

ABOVE AVERAGE TEMPERATURES DURING FILLING STAGE.

NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: 6TA-204 (TRITICALE)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	SHTR %	1000 G.W.	BYDV	YELL BERR
6	MAPACHE	MEXICO	8235	69	135	189	112	2	2	62	22	8
13	MAYA I-ARM	MEXICO	8098	71	137	194	101	37	0	51	44	3
21	BEAGLE	MEXICO	7453	65	139	199	133	50	0	62	0	3
11	F.S.1897	MEXICO	7305	71	134	195	114	62	2	60	44	2
14	M2A-IRA	MEXICO	7276	68	131	195	103	7	0	59	33	10
4	BACUM	MEXICO	7099	69	131	191	102	87	1	46	11	6
15	CINNAMON	MEXICO	7053	68	131	192	108	2	1	59	33	5
12	OCTO BULK - BUSH	MEXICO	7013	71	137	193	113	0	5	61	67	1
9	LINCE	MEXICO ***	6620	69	137	193	107	20	2	63	33	0
7	RAHUM	MEXICO	6614	71	134	193	111	43	3	59	33	1
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	6203	71	138	198	95	72	3	82	44	3
3	ARABIAN	MEXICO	6192	70	132	191	104	0	10	60	22	10
8	YOCO(RESEL)	MEXICO	6123	71	137	191	108	2	12	67	22	23
19	IRA-CAL	MEXICO	6089	71	128	192	95	5	3	54	44	1
18	IA-BULK E2	MEXICO	6003	69	129	187	97	73	0	53	44	3
23	73UM8518	CANADA	5461	61	144	200	119	30	0	70	11	2
5	NACUZARI (BREAD WHEAT)	MEXICO	5456	79	142	198	98	27	13	52	22	0
16	M2A(2)	MEXICO	5456	67	130	190	103	5	5	60	33	2
25	LOCAL CHECK	MEXICO	5450	62	149	201	138	88	1	56	22	7
22	DRIRA	MEXICO	5433	62	148	204	116	18	0	53	22	4
2	NAVOJOA	MEXICO	5073	72	131	189	103	0	17	56	22	13
17	IRA(2)	MEXICO	4959	69	132	187	96	2	18	52	44	3
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4936	76	148	204	98	87	15	44	33	3
1	YOREME TC75	MEXICO	4354	68	131	192	108	8	17	66	11	3
24	TEQUILA (BARLEY)	MEXICO	2910	55	149	193	102	68	7	39	56	0

GRAND MEAN

6114.6 68.5 136.6 194.0 107.4 32.1 5.4 57.9 30.9 4.7

STANDARD ERROR OF GRAND MEAN

83.6

0.3

0.5

2.1

0.5

COEFFICIENT OF VARIATION AS PC

11.8

3.4

4.3

56.3

76.7

LSD VARIETY MEANS 5 PC

1180.2

3.8

7.5

29.6

6.9

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	SHTR %	1000 G.W.	BYDV	YELL BERR
	0.32								
	-0.37	-0.37							
	-0.10	-0.13	0.78						
	0.18	-0.47	0.41	0.43					
	-0.12	-0.13	-0.44	0.41	-0.14				
	-0.57	0.37	-0.05	-0.21	-0.38	-0.25			
	0.29	0.08	-0.21	0.02	0.20	-0.28	-0.14		
	-0.06	0.07	-0.05	-0.24	-0.44	0.00	-0.04	-0.19	
	0.12	0.09	-0.15	-0.21	0.07	-0.26	0.23	0.19	-0.32

9TH ITEM

TABLE 56 NORTH AMERICA

U.S.A.

MONTANA

BOZEMAN

H. MCNEAL ET AL

LATITUDE 845 88'N

DATE PLANTED 4/28/78

LONGITUDE 111 88'W

DATE HARVESTED --/--/--

ELEVATION 1463 M. ABOVE S.L.

AMOUNT OF MOISTURE 102 MM

NITROGEN ---

PHOSPHORUS ---

POTASSIUM ---

EARLY SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WEATHER ABOUT AVERAGE EXCEPT FOR HAIL ON JULY 16TH

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK: NEWANA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLMT HT	HAIL DMGE
22	DRIRA	MEXICO	5113	56	75	119	3
8	YOCO(RESEL)	MEXICO	4949	68	74	95	5
23	73UM8518	CANADA	4882	61	75	188	15
13	MAYA I-ARM	MEXICO	4738	68	71	98	5
25	LOCAL CHECK		4619	77	81	91	3
3	ARABIAN	MEXICO	4577	66	71	91	3
21	BEAGLE	MEXICO	4561	64	72	119	5
1	YORENE TC75	MEXICO ***	4318	66	72	93	5
6	MAFACHE	MEXICO	4216	65	71	182	3
2	NAVOJOA	MEXICO	4128	67	71	86	5
14	M2A-IRA	MEXICO	4118	66	69	99	3
9	LINCE	MEXICO	4064	65	72	93	3
11	F.S.1897	MEXICO	4013	68	71	117	5
15	CINNAMON	MEXICO	3881	64	72	97	3
5	NACQZARI (BREAD WHEAT)	MEXICO	3823	76	73	83	18
7	RAHUN	MEXICO	3688	64	71	181	3
16	M2A(2)	MEXICO	3682	64	72	94	3
12	OCTO BULK - BUSH	MEXICO	3668	67	74	188	3
18	MEXICALI 75 (DURUM WHEAT)	MEXICO	3566	77	73	82	2
19	IRA-CAL	MEXICO	3462	68	78	85	5
4	BACUN	MEXICO	3265	68	78	97	5
28	SIETE CERROS (BREAD WHEAT)	MEXICO	2964	75	88	93	15
18	IA-BULK E2	MEXICO	2968	63	69	93	18
17	IRA(2)	MEXICO	2827	64	69	88	15
24	TEQUILA (BARLEY)	MEXICO	1483	63	79	69	68

GRAND MEAN 3867.1 66.8 72.7 95.1
 STANDARD ERROR OF GRAND MEAN 36.3
 COEFFICIENT OF VARIATION AS PC 8.1
 LSD VARIETY MEANS 5 PC 515.7

CORRELATIONS
 YIELD KG/HA
 TEST WT -0.86
 FLOW DAYS -0.83 8.32
 PLMT HT 8.57 -8.43 -8.14

LINCOLN

V.A. JOHNSON

LATITUDE 040 48'N

LONGITUDE 096 41'W

ELEVATION 0360 M.ABOVE S.L.

DATE PLANTED

4/13/78

DATE HARVESTED

7/27/78

AMOUNT OF MOISTURE

363 MM

NITROGEN

APPLIED

PHOSPHORUS

APPLIED

POTASSIUM

--

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 YIELDS LOW BECAUSE OF LATE PLANTING AND HOT, HIGH WINDS IN JUNE.
 INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
 LOCAL CHECK: OLAF

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	LEAF RUST	PLNT HT	LODG %	SEPT TRIT
6	MAPACHE	MEXICO	852	67	80S	71	7	89
13	MAYA I-ARM	MEXICO	839	66	10MS	66	4	67
11	F.S.1897	MEXICO	795	67	0R	72	5	67
19	IRA-CAL	MEXICO	768	66	5R-80S	62	12	89
25	LOCAL CHECK		762	73	0R	61	1	33
7	RAHUM	MEXICO	737	66	45S	72	1	78
14	M2A-IRA	MEXICO	724	66	TR-50S	69	2	89
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	684	69	0R	59	17	78
4	BACUM	MEXICO	653	66	50S	68	7	89
9	LINCE	MEXICO ***	590	66	60S	64	2	78
18	IA-BULK E2	MEXICO	586	66	60S	70	2	89
5	NACUZARI (BREAD WHEAT)	MEXICO	559	68	80S	55	7	100
23	73UM8518	CANADA	534	73	0R	72	22	22
3	ARABIAN	MEXICO	492	68	80S	60	19	89
17	IRA(2)	MEXICO	492	66	30MS	60	10	89
21	BEAGLE	MEXICO	490	70	80S	81	17	78
8	YOCO(RESEL)	MEXICO	483	70	10S	57	2	89
2	NAVOJOA	MEXICO	465	67	60S	62	4	89
20	SIETE CERROS (BREAD WHEAT)	MEXICO	379	71	80S	56	40	100
12	OCTO BULK - BUSH	MEXICO	379	67	80S	63	25	89
16	M2A(2)	MEXICO	375	68	---	61	4	100
22	DRIRA	MEXICO	360	71	0R	78	5	22
1	YOREME TC75	MEXICO	266	69	60S	58	50	89
15	CINNAMON	MEXICO	264	68	---	64	70	100
24	TEQUILA (BARLEY)	MEXICO	205	66	---	50	100	-
GRAND MEAN			549.3	68.0	41.9	64.4	17.4	79.3
STANDARD ERROR OF GRAND MEAN			12.5			8.4		
COEFFICIENT OF VARIATION AS PC			19.6			5.7		
LSD VARIETY MEANS 5 PC			177.1			6.0		

CORRELATIONS

YIELD KG/HA	FLOW DAYS	LEAF RUST	PLNT HT	LODG %	SEPT TRIT
		-0.21			
		-0.28	-0.31		
		0.35	0.08	-0.14	
		-0.67	0.03	0.18	-0.44
		-0.17	-0.61	0.67	-0.45
					0.17

9TH ITYM

TABLE 58 NORTH AMERICA

U.S.A.

OHIO

WOOSTER

OHIO A.R.D.C.

LATITUDE 84° 47'N

DATE PLANTED 4/26/78

LONGITUDE 81° 56'W

DATE HARVESTED 7/31/78

ELEVATION 8315 M.ABOVE S.L.

AMOUNT OF MOISTURE 260 MM

NITROGEN	APPLIED
PHOSPHORUS	APPLIED
POTASSIUM	APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

WET AND COOL FOR FIVE WEEKS AFTER SOWING.

NEGLECTIBLE DISEASE DEVELOPMENT. NO INSECT, WEED OR BIRD PROBLEMS.

LOCAL CHECK: JAYCEE OATS (SPRING)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	LODG %
21	BEAGLE	MEXICO	2882	42	53	88	0
6	MAPACHE	MEXICO	1891	42	52	86	0
25	LOCAL CHECK		1866	37	55	77	15
22	DRIRA	MEXICO	1733	39	56	84	2
4	BACUM	MEXICO	1550	46	52	79	2
16	M2A(2)	MEXICO ***	1487	42	53	75	0
24	TEQUILA (BARLEY)	MEXICO	1270	39	54	53	10
13	MAYA I-ARM	MEXICO	1230	42	52	67	0
2	NAVOJOA	MEXICO	1217	42	52	74	0
1	YOREME TC75	MEXICO	1209	41	52	80	0
12	OCTO BULK - BUSH	MEXICO	1133	-	54	81	0
7	RAHUM	MEXICO	1128	40	52	82	0
15	CINNAMON	MEXICO	1063	41	52	81	0
3	ARABIAN	MEXICO	1041	40	52	75	0
18	IA-BULK E2	MEXICO	1033	40	52	73	0
19	IRA-CAL	MEXICO	1030	46	52	72	0
23	73UM8518	CANADA	920	40	57	81	0
9	LINCE	MEXICO	872	38	52	79	0
14	M2A-IRA	MEXICO	867	40	52	70	7
8	YOCO(RESEL)	MEXICO	800	41	54	69	0
11	F.S.1897	MEXICO	791	42	52	82	2
5	NACOTARI (BREAD WHEAT)	MEXICO	787	50	53	67	0
17	IRA(2)	MEXICO	556	-	52	61	0
20	SIETE CERROS (BREAD WHEAT)	MEXICO	507	-	61	53	2
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	448	-	54	61	3

GRAND MEAN	1134.0	41.4	53.4	73.9	1.7
STANDARD ERROR OF GRAND MEAN	34.4			0.5	
COEFFICIENT OF VARIATION AS PC	26.3			6.0	
LSD VARIETY MEANS 5 PC	489.6			7.3	

CORRELATIONS

YIELD KG/HA				
TEST WT	-0.14			
FLOW DAYS	-0.14	-0.21		
PLNT HT	0.59	-0.09	-0.33	
LODG %	0.23	-0.44	0.22	-0.27

9TH ITYN

TABLE 59 NORTH AMERICA

U.S.A.

WASHINGTON

PULLMAN

C.F.KONZAK

LATITUDE 046 02'N

LONGITUDE 117 08'W

ELEVATION 0762 M.ABOVE S.L.

DATE PLANTED

9/14/77

DATE HARVESTED

AMOUNT OF MOISTURE

-- MM

NITROGEN

PHOSPHORUS

POTASSIUM

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EARLY SOWING DATE. SOIL DRY AT SOWING. GERMINATION & NOT REPORTED.
 BELOW NORMAL PRECIPITATION DURING SUMMER. FALLOW YEAR. HARVEST
 DELAYED 3.4 WEEKS DUE TO RAIN.
 INSECT, WEED AND BIRD PROBLEMS NOT REPORTED. LOCAL CHECK: 6TA476

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	STRP RT.L	LEAF RUST	PLNT HT
23	73UM8518	CANADA	4957	62	0	0	120
7	RAHUM	MEXICO	4607	60	1	1	116
9	LINCE	MEXICO	4420	56	0	0	108
11	F.S.1897	MEXICO	4342	61	1	1	118
25	LOCAL CHECK		3918	65	0	5	149
6	MAPACHE	MEXICO	3794	60	0	0	106
21	BEAGLE	MEXICO	3765	61	0	1	130
1	YOREME TC75	MEXICO	3726	60	1	0	98
13	MAYA I-ARM	MEXICO	3721	63	1	1	101
22	DRIRA	MEXICO	3707	61	0	1	122
3	ARABIAN	MEXICO	3687	60	1	1	97
8	YOCO(RESEL)	MEXICO	3530	57	1	13	102
5	NACUZARI (BREAD WHEAT)	MEXICO ***	3275	71	53	11	81
4	BACUM	MEXICO	3135	61	1	1	106
18	IA-BULK E2	MEXICO	2824	58	1	0	95
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2577	67	65	15	107
16	M2A(2)	MEXICO	2539	57	0	1	95
2	NAVOJOA	MEXICO	2316	56	1	1	100
15	CINNAMON	MEXICO	2179	53	0	1	93
12	OCTO BULK - BUSH	MEXICO	2090	56	1	0	109
17	IRA(2)	MEXICO	2064	57	0	20	85
19	IRA-CAL	MEXICO	1638	57	3	1	86
14	M2A-IRA	MEXICO	1454	57	0	1	93
24	TEQUILA (BARLEY)	MEXICO	630	62	0	0	87
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	-	-	-	-	-

GRAND MEAN	3120.6	59.9	5.9	3.0	104.4
STANDARD ERROR OF GRAND MEAN	98.8	0.3			0.5
COEFFICIENT OF VARIATION AS PC	26.9	4.3			3.8
LSD VARIETY MEANS 5 PC	1379.0	4.3			6.5

CORRELATIONS

YIELD KG/HA					
TEST WT	0.28				
STRP RT.L	-0.06	0.70			
LEAF RUST	-0.13	0.29	0.54		
PLNT HT	0.61	0.21	-0.15	-0.20	

WERRIBEE

J.B. BROUWER ET AL

LATITUDE 037 54'S

LONGITUDE 144 38'E

ELEVATION 0923 M. ABOVE S.L.

DATE PLANTED 5/22/78

DATE HARVESTED 11/11/78

AMOUNT OF MOISTURE 240 MM

NITROGEN --
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

ABNORMAL JULY. ABOVE AVERAGE SPRING RAINFALL.

CHEMICAL CONTROL OF WEEDS.

LOCAL CHECK: CONDOR.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT	LODG %	1000 G.W.
9	LINCE	MEXICO	3859	59	110	44	38
25	LOCAL CHECK		3587	71	85	0	31
5	MACOZARI (BREAD WHEAT)	MEXICO	3461	65	100	33	33
19	IRA-CAL	MEXICO	3232	57	105	33	30
22	DRIRA	MEXICO	3225	58	105	0	58
13	MAYA I-ARM	MEXICO ***	3112	57	110	22	34
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3111	72	90	22	30
12	OCTO BULK - BUSH	MEXICO	3092	63	115	0	30
11	F.S. 1897	MEXICO	3087	63	115	33	39
16	M2A(2)	MEXICO	3046	58	100	44	40
8	YOCO (RESEL)	MEXICO	3016	62	100	33	41
3	ARABIAN	MEXICO	2992	57	110	22	37
7	RAHUM	MEXICO	2982	59	110	78	34
14	M2A-IRA	MEXICO	2916	58	115	22	36
23	73UM8518	CANADA	2826	62	100	11	39
2	NAVOJOA	MEXICO	2825	62	105	44	37
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2813	71	100	22	46
4	BACUM	MEXICO	2755	52	115	33	28
15	CINNAMON	MEXICO	2678	61	105	22	46
18	IA-BULK E2	MEXICO	2670	59	110	44	35
1	YOREME TC75	MEXICO	2619	60	110	33	43
21	BEAGLE	MEXICO	2339	61	120	22	36
6	MAPACHE	MEXICO	2298	56	110	44	39
17	IRA(2)	MEXICO	1974	57	105	44	33
24	TEQUILA (BARLEY)	MEXICO	1445	42	70	11	22

GRAND MEAN	2875.9	59.9	104.8	28.6	36.9
STANDARD ERROR OF GRAND MEAN	41.9	0.4			0.4
COEFFICIENT OF VARIATION AS PC	10.3	4.3			7.4
LSD VARIETY MEANS 5 PC	611.4	5.4			5.6

CORRELATIONS

YIELD KG/HA	TEST WT	PLNT HT	LODG %	1000 G.W.
	0.56			
	0.20	0.03		
	-0.04	-0.14	0.30	
	0.25	0.28	0.33	-0.15

PALMERSTON NORTH

H.M.MCEWAN

LATITUDE 848 23'S

DATE PLANTED 9/23/77

LONGITUDE 175 37'E

DATE HARVESTED 2/27/78

ELEVATION 8815 M.ABOVE S.L.

AMOUNT OF MOISTURE 233 MM

NITROGEN --

PHOSPHORUS --

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
UNUSUALLY DRY IN JANUARY AND FEBRUARY. SEVERE BIRD DAMAGE.
SLIGHT DISEASE INCIDENCE. LOCAL CHECK: KARAMU 19

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLMT HT
25	LOCAL CHECK		12661	79	75	75
13	MAYA I-ARM	MEXICO	11954	68	71	90
5	MACAZARI (BREAD WHEAT)	MEXICO	11823	75	73	88
3	ARABIAN	MEXICO ***	10768	69	71	93
12	OCTO BULK - BUSH	MEXICO	10704	72	71	100
22	DRIRA	MEXICO	10677	66	73	105
21	BEAGLE	MEXICO	10532	67	74	100
20	SIETE CERROS (BREAD WHEAT)	MEXICO	10374	78	76	90
6	MAPACHE	MEXICO	10292	68	72	90
9	LINCE	MEXICO	10221	67	71	90
19	IRA-CAL	MEXICO	10055	69	68	87
4	BACUM	MEXICO	9971	70	69	90
8	YOCO(RESEL)	MEXICO	9947	68	73	90
18	IA-BULK E2	MEXICO	9762	67	68	90
2	NAVOJOA	MEXICO	9306	71	71	90
14	M2A-IRA	MEXICO	9221	69	69	88
11	F.S.1897	MEXICO	9122	69	73	105
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	9064	77	69	85
15	CINNAMON	MEXICO	9001	66	71	93
7	RAHUM	MEXICO	8892	64	71	95
16	M2A(2)	MEXICO	8841	61	72	95
23	73UM8518	CANADA	8778	66	76	102
1	YORENE TC75	MEXICO	8492	68	72	92
17	IRA(2)	MEXICO	7987	68	69	90
24	TEQUILA (BARLEY)	MEXICO	1394	68	64	70
	GRAND MEAN		9593.6	69.2	71.1	92.3
	STANDARD ERROR OF GRAND MEAN		119.2			0.3
	COEFFICIENT OF VARIATION AS PC		10.8			3.3
	LSD VARIETY MEANS 5 PC		1695.2			4.9

CORRELATIONS

YIELD	KG/HA			
TEST	WT	0.32		
FLOW	DAYS	0.60	0.20	
PLMT	HT	0.35	-0.46	0.50

9TH ITM

TABLE 62 SOUTH AMERICA

BOLIVIA

COCHABAMBA

SAN BENITO

G. SALAMANCA ET AL

LATITUDE 017 30'S

LONGITUDE 066 06'W

ELEVATION 2730 M.ABOVE S.L.

DATE PLANTED 12/27/77

DATE HARVESTED 6/ 5/78

AMOUNT OF MOISTURE 441 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION & NOT REPORTED.

WEATHER NORMAL. NEGLIGIBLE INSECT DAMAGE.

CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: CHIMOLI 70

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	SEPT TRIT
24	TEQUILA (BARLEY)	MEXICO	3560	67	----	33
25	LOCAL CHECK		3487	63	----	40
12	OCTO BULK - BUSH	MEXICO	3357	66	----	26
4	BACUM	MEXICO	3049	62	----	11
11	F.S.1097	MEXICO	3030	64	10MS	22
19	IRA-CAL	MEXICO	2996	65	----	22
16	M2A(2)	MEXICO	2989	63	----	26
5	MACAZARI (BREAD WHEAT)	MEXICO	2917	64	30MS	26
3	ARABIAN	MEXICO	2900	65	----	22
10	JA-BULK E2	MEXICO	2890	64	----	22
6	MAPACHE	MEXICO	2772	63	TR	11
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2763	65	30MS	56
13	MAYA I-ARM	MEXICO	2694	65	----	26
7	RAHUM	MEXICO	2671	64	----	11
22	DIRA	MEXICO	2645	66	----	7
2	NAVOJOA	MEXICO	2576	64	----	26
1	YOREM TC75	MEXICO	2506	64	TR	15
8	YOCO(RESEL)	MEXICO	2475	66	----	15
21	BEAGLE	MEXICO	2422	64	TR	29
9	LINCE	MEXICO	2318	63	----	15
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2148	63	----	48
17	IRA(2)	MEXICO	2146	64	----	22
15	CINNAMON	MEXICO	2098	64	----	37
14	M2A-IRA	MEXICO	1889	63	----	44
23	73UM8510	CANADA	1832	71	5R	11

GRAND MEAN 2681.7 64.4 8.2 25.2
 STANDARD ERROR OF GRAND MEAN
 COEFFICIENT OF VARIATION AS PC
 LSD VARIETY MEANS 5 PC

CORRELATIONS
 YIELD KG/HA
 FLOW DAYS -0.11
 STRP RT.L 0.45 -0.23
 SEPT TRIT 0.04 -0.22 0.09

9TH ITYM

TABLE 63

SOUTH AMERICA

BRAZIL

DISTRITO FEDERAL

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

570 MM

NITROGEN

PHOSPHORUS

POTASSIUM

APPLIED

APPLIED

APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

ABNORMAL WEATHER CONDITIONS DURING THE TEST.

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	DRIRA	MEXICO	1931	-	61	R	R	80	48
6	MAPACHE	MEXICO	1700	-	49	5MR	R	85	35
12	OCTO BULK - BUSH	MEXICO	1667	70	55	5MR	R	80	40
23	73UM0518	CANADA	1449	-	70	R	R	80	36
7	RAHUM	MEXICO	1421	-	53	R	3MS	75	37
4	BACUM	MEXICO ***	1333	69	45	10MR	3MS	65	37
21	BEAGLE	MEXICO	1280	-	58	R	2MS	85	43
11	F.S.1897	MEXICO	1260	67	49	5S	R	80	37
2	NAVOJOA	MEXICO	1239	68	52	10S	R	75	30
9	LINCE	MEXICO	1036	-	52	3MR	5MS	70	35
25	LOCAL CHECK		1003	78	63	50S	10S	90	35
1	YORENE TC75	MEXICO	996	-	52	15S	5MS	70	39
15	CINNAMON	MEXICO	968	-	52	5MR	R	75	39
19	IRA-CAL	MEXICO	953	71	50	R	5S	70	37
3	ARABIAN	MEXICO	913	67	53	10S	R	70	39
16	M2A(2)	MEXICO	900	-	49	2MR	R	70	37
13	MAYA I-ARM	MEXICO	780	66	52	15S	R	70	33
18	IA-BULK E2	MEXICO	755	-	49	10MR	10MS	65	29
8	YOCO(RESEL)	MEXICO	684	67	54	15S	R	65	35
14	M2A-IRA	MEXICO	620	-	49	20S	3MS	65	32
17	IRA(2)	MEXICO	557	-	45	50S	40S	60	28
5	NACUZARI (BREAD WHEAT)	MEXICO	393	82	52	70S	5MS	45	35
20	SIETE CERROS (BREAD WHEAT)	MEXICO	329	81	56	5MR	R	50	30
24	TEQUILA (BARLEY)	MEXICO	168	-	72	R	25S	45	37
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	29	-	63	3MR	3MS	65	-

GRAND MEAN 974.9 71.5 54.2 14.7 10.0 70.0 35.0
 STANDARD ERROR OF GRAND MEAN 32.9
 COEFFICIENT OF VARIATION AS PC 29.2
 LSD VARIETY MEANS 5 PC 460.1

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.
	-0.49					
		-0.11	0.31			
			-0.29	0.78	0.04	
				-0.21	-0.20	0.16
					0.54	
					0.77	-0.54
						0.02
						-0.27
						-0.10
						0.53
						-0.23
						0.32
						-0.21
						-0.24
						0.41

9TH ITYM

TABLE 64 SOUTH AMERICA

BRAZIL

PARAMA

LODRINA

M. ALCOVER

LATITUDE 023 20'S

LONGITUDE 051 08'W

ELEVATION

M. ABOVE S. L.

DATE PLANTED

5/20/78

DATE HARVESTED

10/--/78

AMOUNT OF MOISTURE

400 MM

NITROGEN

APPLIED

PHOSPHORUS

APPLIED

POTASSIUM

APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.

CONDITIONS OF DROUGHT DURING THE TRIAL.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.
24	TEQUILA (BARLEY)	MEXICO	2833	53	76	144	---	30S	50	35
6	MAPACHE	MEXICO	2396	64	59	136	---	10MR	65	34
22	DRIRA	MEXICO	2354	60	74	139	THR	TR	80	39
21	BEAGLE	MEXICO	2313	61	68	139	---	10S	75	37
7	RAHUM	MEXICO	2259	58	65	138	30MR	20S	70	27
8	YOCO (REBEL)	MEXICO ***	1854	65	67	130	60S	THR	65	25
12	OCTO BULK - BUSH	MEXICO	1844	63	70	139	30MS	10MS	70	27
13	MAYA I-ARM	MEXICO	1813	60	59	136	THS	10MS	60	27
15	CINNAMON	MEXICO	1792	64	64	136	10MR	10MR	65	35
3	ARABIAN	MEXICO	1781	66	64	135	60S	5MR	60	29
11	F.S. 1097	MEXICO	1771	62	64	137	30S	15MS	70	27
23	73UM6518	CANADA	1646	57	76	148	10MS	THR	70	34
14	M2A-IRA	MEXICO	1625	61	56	138	30MS	15MS	55	30
9	LIMCE	MEXICO	1625	57	59	136	10MS	20S	65	33
4	BACUM	MEXICO	1604	65	56	130	80S	THR	65	31
19	IRA-CAL	MEXICO	1573	64	58	130	---	60S	60	22
16	M2A(2)	MEXICO	1521	64	59	130	10MS	5MS	60	36
18	IA-BULK E2	MEXICO	1500	62	56	131	50S	20S	55	26
2	NAVOJOA	MEXICO	1469	66	63	135	50S	10S	60	26
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1333	70	61	128	30MS	10MS	60	42
5	HACAZARI (BREAD WHEAT)	MEXICO	1323	72	57	118	20S	60S	55	29
1	YOREME TC75	MEXICO	1188	64	65	136	60S	20S	60	32
25	LOCAL CHECK		1042	76	69	131	20S	---	65	32
17	IRA(2)	MEXICO	917	57	55	118	80S	40S	50	21
20	SIETE CERROS (BREAD WHEAT)	MEXICO	813	74	66	127	80S	20S	55	30
GRAND MEAN			1687.1	63.4	63.4	133.8	33.5	15.6	62.6	30.4
STANDARD ERROR OF GRAND MEAN			37.2							
COEFFICIENT OF VARIATION AS PC			19.1							
LSD VARIETY MEANS 5 PC			528.0							

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.

9TH ITYN

TABLE 65 SOUTH AMERICA

BRAZIL

RIO GRANDE DO SUL

CRUZ ALTA
WHEAT STAFF

LATITUDE 028 30'S DATE PLANTED 6/23/78
 LONGITUDE 053 36'W DATE HARVESTED 11/15/78
 ELEVATION 0473 M.ABOVE S.L. AMOUNT OF MOISTURE 565 MM

NITROGEN APPLIED
 PHOSPHORUS APPLIED
 POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 WEATHER NORMAL. SOME APHID DAMAGE.
 LOCAL CHECK: NOBRE.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	LEAF RUST	STEM RUST	PLNT HT	POWD %	SEPT TRIT	SEPT NODO
11	F.S.1897	MEXICO	3286	60	5MS	0-5MS	105	0	0	25
12	OCTO BULK - BUSH	MEXICO	3277	66	TMS	TMR	100	0	25	50
6	MAPACHE	MEXICO	3266	53	0	TMR	110	0	75	25
7	RAHUM	MEXICO	3071	53	5S	SMR	105	0	50	25
21	BEAGLE	MEXICO	2897	57	10S	TMR	115	0	25	0
3	ARABIAN	MEXICO	2827	57	5MS-S	SMR	100	0	0	50
2	NAVOJOA	MEXICO	2776	57	5S	0	95	0	25	25
22	DRIRA	MEXICO	2702	57	10MR-MS	0	100	0	0	-
13	MAYA I-ARM	MEXICO	2668	57	0	TMR	95	0	25	25
1	YOREME TC75	MEXICO	2560	57	0	10MR	95	0	25	25
16	M2A(2)	MEXICO ***	2490	52	TR	0	90	0	25	25
14	M2A-IRA	MEXICO	2458	55	10MR-MS	TMS	95	0	25	25
15	CINNAMON	MEXICO	2445	55	0	TMS	90	0	75	25
8	YOCO(RESEL)	MEXICO	2423	57	TS	TMR	95	0	75	50
19	IRA-CAL	MEXICO	2364	60	0	15S	95	0	25	25
9	LINCE	MEXICO	2334	53	10S	SMR	95	0	0	0
18	IA-BULK E2	MEXICO	2180	54	20S	TMS	90	0	25	50
4	BACUM	MEXICO	2150	57	0	TMS	95	0	75	25
17	IRA(2)	MEXICO	2121	51	5MS	10S	85	0	75	50
25	LOCAL CHECK		1727	73	40S	30S	115	60	75	75
23	73UM8518	CANADA	1568	49	5MS	0	95	0	50	25
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1196	62	---	0	85	0	100	50
5	NACOZARI (BREAD WHEAT)	MEXICO	1003	57	50S	0	85	80	100	75
24	TEQUILA (BARLEY)	MEXICO	872	51	---	---	80	100	-	-
20	SIETE CERROS (BREAD WHEAT)	MEXICO	569	58	0	60S	90	0	75	75
GRAND MEAN			2289.3	56.7	7.4	5.5	96.0	9.6	43.8	35.9
STANDARD ERROR OF GRAND MEAN			45.2							
COEFFICIENT OF VARIATION AS PC			17.1							
LSD VARIETY MEANS 5 PC			642.8							

CORRELATIONS

YIELD KG/HA	TEST WT	LEAF RUST	STEM RUST	PLNT HT	POWD %	SEPT TRIT	SEPT NODO
0.03							
-0.41	0.36						
-0.53	0.33	0.09					
0.60	0.42	0.06	0.00				
-0.57	0.13	0.70	0.12	-0.23			
-0.57	0.10	0.31	0.26	-0.26	0.32		
-0.57	0.47	0.54	0.54	-0.24	0.43	0.53	

9TH ITM TABLE 66 SOUTH AMERICA COLOMBIA CUNDINAMARCA

TIBAITATA
M. ZAPATA
LATITUDE 084 04'N DATE PLANTED 3/21/78 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. GERMINATION GOOD.
WEATHER NORMAL.
WEED PROBLEMS
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
7	RAHUM	MEXICO	1477	83	186	122	51
12	OCTO BULK - BUSH	MEXICO	1420	89	186	125	40
16	M2A(2)	MEXICO	1398	79	188	108	43
19	IRA-CAL	MEXICO	1392	81	185	105	43
6	MAPACHE	MEXICO	1372	80	183	118	45
4	BACUM	MEXICO	1282	79	188	113	45
1	YOREME TC75	MEXICO	1243	84	184	110	49
13	MAYA I-ARM	MEXICO	1200	82	185	107	43
11	F.S.1897	MEXICO	1170	85	190	123	43
15	CINNAMON	MEXICO	1103	84	188	110	43
8	YOCO(RESEL)	MEXICO	1095	90	187	113	38
9	LINCE	MEXICO	1090	83	181	112	44
3	ARABIAN	MEXICO	1072	82	184	100	44
25	LOCAL CHECK	***	1023	80	174	127	38
2	NAVOJOA	MEXICO	1007	83	183	100	45
18	IA-BULK E2	MEXICO	980	82	187	110	44
5	NACAZARI (BREAD WHEAT)	MEXICO	973	83	174	90	39
17	IRA(2)	MEXICO	957	85	193	98	41
14	M2A-IRA	MEXICO	942	77	183	105	42
21	BEAGLE	MEXICO	912	90	190	145	43
20	SIETE CERROS (BREAD WHEAT)	MEXICO	863	87	179	102	38
22	DRIRA	MEXICO	757	91	189	130	43
23	73UM8518	CANADA	732	94	185	120	42
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	498	82	184	97	52
24	TEQUILA (BARLEY)	MEXICO	-	82	139	00	-

GRAND MEAN 1081.6 83.9 183.0 111.8 43.3
STANDARD ERROR OF GRAND MEAN 26.1 0.3
COEFFICIENT OF VARIATION AS PC 20.5 5.1
LSD VARIETY MEANS 5 PC 364.3 3.6

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
		-0.36		
		0.05	0.20	
		0.07	0.45	0.53
		0.05	-0.26	0.10 -0.02

9TH ITYN

TABLE 67 SOUTH AMERICA

PERU

LIMA

LA MOLINA

C. LLOSA

LATITUDE 012 05'S

LONGITUDE 076 57'W

ELEVATION 0251 M.ABOVE S.L.

DATE PLANTED 9/ 1/77

DATE HARVESTED 1/ 9/78

AMOUNT OF MOISTURE -- MM

NITROGEN --

PHOSPHORUS --

POTASSIUM --

LATE SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.

WEATHER NORMAL. SLIGHT DISEASE INCIDENCE.

NO INSECT, WEED OR BIRD PROBLEMS. 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.
21	BEAGLE	MEXICO	3538	-	62	116	0	108	54
11	F.S.1897	MEXICO	3477	72	52	106	0	101	45
25	LOCAL CHECK		3174	83	72	118	5S	94	39
5	NACAZARI (BREAD WHEAT)	MEXICO	3167	82	53	100	0	75	41
22	DRIRA	MEXICO	3099	-	61	114	0	107	52
7	RAHUM	MEXICO	3093	70	56	108	5VR	94	48
1	YOYEME TC75	MEXICO	3007	68	55	112	0	88	44
12	OCTO BULK - BUSH	MEXICO	2999	73	58	102	10MS	97	47
8	YOCO(RESEL)	MEXICO	2990	70	59	100	5MR	88	37
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2841	83	59	100	0	76	39
19	IRA-CAL	MEXICO	2768	73	52	104	0	85	39
23	73UN8518	CANADA	2750	-	69	116	0	94	43
3	ARABIAN	MEXICO	2632	69	57	116	0	92	46
9	LINCE	MEXICO	2621	66	53	102	0	82	43
15	CINNAMON	MEXICO	2604	-	52	104	20S	92	47
16	M2A(2)	MEXICO ***	2428	-	52	108	0	84	38
6	MAPACHE	MEXICO	2370	-	53	104	5VR	96	39
17	IRA(2)	MEXICO	2320	-	49	108	0	79	37
2	NAVOJOA	MEXICO	2206	70	54	100	0	75	41
18	IA-BULK B2	MEXICO	2147	67	51	102	0	82	43
4	BACUM	MEXICO	2139	-	50	106	5VR	90	39
14	M2A-IRA	MEXICO	2122	-	51	102	5VR	82	43
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2008	78	56	100	0	70	53
13	MAYA I-ARM	MEXICO	1979	-	54	104	5VR	80	39
24	TEQUILA (BARLEY)	MEXICO	1552	-	63	104	0	69	38

GRAND MEAN	2640.4	73.1	56.1	106.9	1.6	87.0	43.0
STANDARD ERROR OF GRAND MEAN	62.4					0.7	
COEFFICIENT OF VARIATION AS PC	20.5					5.5	
LSD VARIETY MEANS 5 PC	886.7					9.9	

CORRELATIONS

YIELD KG/HA							
TEST WT	0.21						
FLOW DAYS	0.30	0.50					
MAT DAYS	0.42	-0.15	0.60				
LEAF RUST	0.08	0.12	0.00	-0.09			
PLNT HT	0.69	-0.24	0.27	0.59	0.20		
1000 G.W.	0.36	-0.16	0.15	0.19	0.15	0.46	

Table 68 REGION I. Summary for yield, agronomic and disease data for the 8th ITYN.

(Locations: Tripoli, LIBYA; Tunis, TUNISIA; R. D. Sde-Gat and Bet Dagan, ISRAEL; Laxia, CYPRUS; Zaragoza, SPAIN, Izmir, TURKEY.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.	POWD %
5	NACUZARI (BREAD WHEAT)	MEXICO	4617	81	100	170	5	89	27	41	78
6	MAPACHE	MEXICO	4506	69	96	171	7	104	2	44	48
13	MAYA I-ARM	MEXICO	4324	72	94	170	-	96	42	42	48
25	LOCAL CHECK		4228	79	96	173	13	93	2	41	37
21	BEAGLE	MEXICO	4210	68	98	168	8	119	17	47	37
1	YOREME TC75	MEXICO	4181	71	95	171	5	97	0	50	11
8	YOCO(RESEL)	MEXICO	4170	72	97	172	4	96	0	43	56
2	NAVOJOA	MEXICO	4159	74	95	174	13	94	0	45	29
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	4136	79	98	173	7	89	80	53	74
22	DRIRA	MEXICO	4103	67	103	167	0	114	7	54	37
3	ARABIAN	MEXICO	4077	72	96	173	9	96	0	45	71
9	LINCE	MEXICO	4049	70	95	174	-	98	0	43	74
4	BACUM	MEXICO	3988	73	93	174	5	98	93	43	67
12	OCTO BULK - BUSH	MEXICO	3953	73	101	172	-	103	3	46	40
14	M2A-IRA	MEXICO	3938	69	92	175	-	94	60	45	48
11	F.S.1897	MEXICO	3934	73	95	173	0	110	33	44	33
7	RAHUM	MEXICO	3922	72	94	169	-	102	45	44	67
19	IRA-CAL	MEXICO	3844	72	92	171	-	88	15	42	78
16	M2A(2)	MEXICO	3841	68	95	171	-	91	0	43	67
15	CINNAMON	MEXICO	3803	70	95	173	0	96	0	46	52
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3725	78	106	175	50	90	32	37	56
18	IA-BULK E2	MEXICO	3649	72	91	171	10	92	48	43	78
23	73UM8518	CANADA	3366	66	100	175	-	104	22	42	11
17	IRA(2)	MEXICO	3200	69	92	167	0	90	22	41	78
24	TEQUILA (BARLEY)	MEXICO	2924	61	103	162	45	81	13	37	71

SUMMARY MEANS OVER VARIETIES	3953.8	71.4	96.8	171.1	10.5	97.0	22.5	44.0	53.8
NUMBER OF LOCATIONS FOR EACH VARIABLE	7	4	7	2	2	7	1	6	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE	19	12	17	6	4	17	3	16	3

Table 69 REGION II. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Gen. Toshevo, BULGARIA; Clermont Ferrand, FRANCE; Foggia and Rome, ITALY; Warka and Bionie, POLAND; Alentejo, PORTUGAL; Ilfov, ROMANIA; Landskrona, SWEDEN; Bavaria, WEST GERMANY, Oslo, NORWAY; Lower Saxony, WEST GERMANY.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.	POWD %	SEPT TRIT	SEPT NODO	PROT %
25	LOCAL CHECK		4764	76	123	160	74	35	43	103	10	43	30	54	48	16
6	MAPACHE	MEXICO	4623	66	113	156	22	20	6	104	15	43	19	34	19	13
21	BEAGLE	MEXICO	4534	66	114	159	21	39	6	113	33	47	28	22	33	14
22	DRIRA	MEXICO	4317	60	114	160	6	29	11	113	31	53	22	21	33	12
23	73UM8518	CANADA	4281	65	117	162	7	2	6	104	20	47	22	22	33	15
5	NACUZARI (BREAD WHEAT)	MEXICO	4217	76	114	155	28	6	21	83	12	40	31	52	33	16
11	F.S.1897	MEXICO	4216	67	112	157	6	40	8	101	35	41	20	32	29	14
4	BACUM	MEXICO	4074	66	109	155	6	37	13	92	32	42	20	36	33	14
8	YOCO(RESEL)	MEXICO	4060	66	113	156	6	42	17	90	8	44	26	39	33	14
13	MAYA I-ARM	MEXICO	4047	66	111	157	9	27	24	90	23	39	22	32	40	15
16	M2A(2)	MEXICO	4033	64	112	157	36	0	11	91	17	43	22	46	30	15
12	OCTO BULK - BUSH	MEXICO	3997	67	113	157	6	20	9	95	9	44	30	33	40	14
7	RAHUM	MEXICO	3923	65	110	156	8	22	6	98	28	41	26	32	33	15
3	ARABIAN	MEXICO	3917	65	111	157	6	23	10	89	12	43	37	36	41	13
14	M2A-IRA	MEXICO	3913	64	110	158	6	15	11	90	24	41	22	37	41	15
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3863	76	116	159	50	54	0	91	21	36	20	50	0	14
15	CINNAMON	MEXICO	3810	65	111	156	9	30	0	92	12	44	26	33	33	15
9	LINCE	MEXICO	3789	64	111	157	6	17	6	90	16	40	30	34	33	15
2	NAVOJOA	MEXICO	3783	67	112	157	6	24	25	86	11	44	26	38	56	14
1	YOREME TC75	MEXICO	3519	64	112	158	6	36	13	91	16	45	22	20	48	15
19	IRA-CAL	MEXICO	3464	66	110	155	34	26	0	84	19	39	33	37	30	16
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3279	71	112	156	45	26	34	82	14	49	24	41	33	17
18	IA-BULK E2	MEXICO	3192	65	110	157	6	5	6	87	32	40	24	32	41	17
24	TEQUILA (BARLEY)	MEXICO	2599	59	98	144	0	27	0	74	34	40	20	67	-	14
17	IRA(2)	MEXICO	2453	64	111	156	6	20	13	85	23	39	22	43	41	17
SUMMARY MEANS OVER VARIETIES			3866.9	66.3	111.9	156.3	16.3	25.1	12.6	92.6	20.5	42.7	24.0	37.5	35.4	14.8
NUMBER OF LOCATIONS FOR EACH VARIABLE			12	9	8	2	2	4	2	10	4	9	2	3	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			34	25	20	6	6	8	6	20	10	25	6	8	3	3

Table 70 REGION III. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Croatia and Voyvodina, YUGOSLAVIA; Kecskemet, HUNGARY.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	1000 G.W.	POWD %	SCAB %
25	LOCAL CHECK		5235	72	114	196	96	11	38	75	13
21	BEAGLE	MEXICO	5185	66	110	200	105	12	51	0	5
24	TEQUILA (BARLEY)	MEXICO	4958	60	105	191	73	0	45	84	-
13	MAYA I-ARM	MEXICO	4878	67	108	197	85	0	33	0	5
6	MAPACHE	MEXICO	4720	64	110	200	97	0	36	0	10
12	OCTO BULK - BUSH	MEXICO	4632	69	109	199	96	17	40	0	8
7	RAHUM	MEXICO	4538	64	109	198	94	5	34	0	10
11	F.S.1897	MEXICO	4512	67	110	200	102	9	37	0	10
16	M2A(2)	MEXICO	4159	62	109	199	90	0	37	0	8
4	BACUM	MEXICO	4137	67	107	197	90	0	36	0	10
14	M2A-IRA	MEXICO	4116	64	108	195	88	0	37	0	10
9	LINCE	MEXICO	4034	62	109	199	92	0	36	0	10
23	73UM8518	CANADA	3947	60	113	203	104	9	43	0	10
3	ARABIAN	MEXICO	3871	66	109	199	86	0	35	0	15
22	DRIRA	MEXICO	3843	58	112	201	100	8	54	13	8
19	IRA-CAL	MEXICO	3829	68	106	195	84	0	37	0	15
15	CINNAMON	MEXICO	3812	65	110	200	89	0	40	0	10
1	YOREME TG75	MEXICO	3699	64	110	199	91	4	41	0	13
8	YOCO(RESEL)	MEXICO	3610	65	110	200	75	0	37	0	13
2	NAVOJOA	MEXICO	3583	67	109	198	82	0	35	0	15
18	IA-BULK E2	MEXICO	3461	65	107	195	89	0	36	0	8
20	SIETE CERROS (BREAD WHEAT)	MEXICO	3356	74	158	201	87	9	37	75	40
5	MACOZARI (BREAD WHEAT)	MEXICO	3167	74	111	200	80	0	31	79	35
17	IRA(2)	MEXICO	3012	63	107	197	83	0	35	0	25
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2529	69	110	197	76	0	49	8	-
SUMMARY MEANS OVER VARIETIES			4033.0	65.6	111.0	198.2	89.1	3.2	38.6	13.4	13.3
NUMBER OF LOCATIONS FOR EACH VARIABLE			3	3	2	1	2	2	2	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			9	9	6	3	6	6	4	3	2

Table 71 REGION IV. Summary for yield, agronomic and disease data for the 9th ITYN.

(Location: Rift Valley, KENYA.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT. L	STEM RUST
12	OCTO BULK - BUSH	MEXICO	5563	90	0	0
6	MAPACHE	MEXICO	5261	83	0	0
8	YOCO(RESEL)	MEXICO	5172	90	0	0
25	LOCAL CHECK		5110	86	0	0
2	NAVOJOA	MEXICO	5088	83	0	0
4	BACUM	MEXICO	4830	82	0	0
1	YOREME TC75	MEXICO	4594	83	0	0
7	RAHUM	MEXICO	4559	83	0	0
3	ARABIAN	MEXICO	4434	90	0	0
15	CINNAMON	MEXICO	4274	83	0	0
21	BEAGLE	MEXICO	4230	89	50	10
16	M2A(2)	MEXICO	4097	82	0	0
13	MAYA I-ARM	MEXICO	3959	83	30	0
23	73UM8518	CANADA	3870	91	0	0
18	IA-BULK E2	MEXICO	3857	80	0	0
9	LINCE	MEXICO	3781	90	0	0
14	M2A-IRA	MEXICO	3586	80	0	0
11	F.S.1897	MEXICO	3550	82	0	0
5	NACUZARI (BREAD WHEAT)	MEXICO	3115	90	30	50
22	DRIRA	MEXICO	3115	90	1	0
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2768	78	8	0
17	IRA(2)	MEXICO	2333	79	0	70
24	TEQUILA (BARLEY)	MEXICO	2119	83	0	8
19	IRA-CAL	MEXICO	1884	82	0	90
20	SIETE CERROS (BREAD WHEAT)	MEXICO	471	90	50	4

SUMMARY MEANS OVER VARIETIES	3824.8	84.9	6.8	9.3
NUMBER OF LOCATIONS FOR EACH VARIABLE	1	1	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE	3	1	1	1

Table 72 REGION V. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Domiat, EGYPT; Derra Mouhaphada, SYRIA; Sana'a and Taizz, YEMEN.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	1000 G.W.
21	BEAGLE	MEXICO	2216	67	81	148	7	7	95	23	15	39
3	ARABIAN	MEXICO	2170	71	77	145	14	5	84	5	40	42
12	OCTO BULK - BUSH	MEXICO	2078	73	80	141	4	0	80	10	40	43
22	DRIRA	MEXICO	2057	67	82	147	6	0	92	15	15	46
11	F.S.1897	MEXICO	2040	71	76	144	3	0	96	27	25	39
8	YOCO(RESEL)	MEXICO	2032	72	80	141	19	0	86	5	40	39
4	BACUM	MEXICO	1963	70	75	139	11	5	88	30	40	38
14	M2A-IRA	MEXICO	1961	69	75	145	3	0	83	15	20	38
5	NACUZARI (BREAD WHEAT)	MEXICO	1911	82	79	136	18	11	79	8	25	38
2	NAVOJOA	MEXICO	1909	72	77	141	35	5	83	15	40	38
1	YOREME TC75	MEXICO	1849	68	77	141	27	5	80	8	40	41
13	MAYA I-ARM	MEXICO	1843	70	78	141	2	0	88	13	20	33
7	RAHUM	MEXICO	1757	63	77	140	4	0	86	37	30	37
16	M2A(2)	MEXICO	1722	69	78	139	2	0	85	13	40	39
6	MAPACHE	MEXICO	1717	66	77	141	4	0	83	13	10	38
23	73UM8518	CANADA	1703	69	88	150	1	0	86	7	37	37
20	SIETE CERROS (BREAD WHEAT)	MEXICO	1623	77	80	138	65	53	80	17	25	33
9	LINCE	MEXICO	1621	67	77	143	6	0	83	17	27	37
15	CINNAMON	MEXICO	1561	68	75	140	3	0	82	12	18	39
19	IRA-CAL	MEXICO	1405	72	75	136	36	43	77	12	40	37
18	IA-BULK B2	MEXICO	1367	67	75	135	26	10	80	22	25	35
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1300	-	78	135	55	68	77	57	20	46
25	LOCAL CHECK		1285	80	77	133	51	78	80	13	30	41
17	IRA(2)	MEXICO	1275	69	74	136	26	13	83	17	40	36
24	TEQUILA (BARLEY)	MEXICO	1229	64	80	132	19	32	74	15	40	41
SUMMARY MEANS OVER VARIETIES			1744.0	70.1	77.8	140.1	17.6	13.3	83.6	17.0	29.7	38.8
NUMBER OF LOCATIONS FOR EACH VARIABLE			4	1	4	4	2	2	4	1	1	3
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			12	1	10	10	4	4	10	3	3	5

Table 73 REGION VI. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Fars, IRAN; Baghdad, IRAQ .)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
8	YOCO(RESEL)	MEXICO	6341	116	159	2	104	41
5	NACUZARI (BREAD WHEAT)	MEXICO	5752	113	158	40	93	43
13	MAYA I-ARM	MEXICO	5604	114	159	0	96	42
9	LINCE	MEXICO	5520	115	156	0	99	44
11	F.S.1897	MEXICO	5463	115	159	0	107	50
12	OCTO BULK - BUSH	MEXICO	5168	115	159	0	104	48
14	M2A-IRA	MEXICO	5126	114	158	0	100	44
4	BACUM	MEXICO	5047	109	157	0	99	45
17	IRA(2)	MEXICO	5015	107	155	0	95	42
6	MAPACHE	MEXICO	4915	111	158	0	102	44
15	CINNAMON	MEXICO	4915	114	158	0	104	51
23	73UMB518	CANADA	4901	115	160	0	102	45
19	IRA-CAL	MEXICO	4891	108	153	0	96	41
21	BEAGLE	MEXICO	4827	114	161	0	117	53
7	RAHUM	MEXICO	4691	114	159	0	98	45
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	4671	117	158	0	93	59
20	SIETE CERROS (BREAD WHEAT)	MEXICO	4659	116	161	4	92	42
2	NAVOJOA	MEXICO	4589	109	160	0	98	45
22	DRIRA	MEXICO	4563	114	161	0	106	58
18	IA-BULK E2	MEXICO	4486	107	157	0	90	43
1	YOREME TC75	MEXICO	4471	109	160	1	86	51
16	M2A(2)	MEXICO	4332	109	151	0	87	41
3	ARABIAN	MEXICO	4286	112	159	1	92	45
24	TEQUILA (BARLEY)	MEXICO	4022	107	149	0	90	42
25	LOCAL CHECK		3848	118	155	80	92	49

SUMMARY MEANS OVER VARIETIES	4884.2	112.3	157.4	5.1	97.5	46.1
NUMBER OF LOCATIONS FOR EACH VARIABLE	2	2	2	1	2	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE	6	6	6	3	6	3

Table 74 REGION VII. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Ishurdi, BANGLADESH; Delhi, Karnataka, Madhya Pradesh and Punjab, INDIA;
Dhankuta and Janakpur Ancha, NEPAL; Punjab and Sind, PAKISTAN.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	SHTR %	1000 G.W.	FERT %
7	RAHUM	MEXICO	3764	87	139	14	104	12	48	96
5	NACUZARI (BREAD WHEAT)	MEXICO	3727	87	136	31	84	0	43	92
25	LOCAL CHECK		3648	86	139	26	100	0	50	85
9	LINCE	MEXICO	3648	89	140	24	100	12	49	75
19	IRA-CAL	MEXICO	3594	83	136	8	95	0	42	94
11	F.S.1897	MEXICO	3569	87	141	16	110	10	49	75
6	MAPACHE	MEXICO	3546	87	139	8	103	11	49	85
13	MAYA I-ARM	MEXICO	3538	87	141	10	93	10	45	85
4	BACUM	MEXICO	3492	83	137	18	100	4	46	80
14	M2A-IRA	MEXICO	3452	83	140	20	96	10	48	85
17	IRA(2)	MEXICO	3395	81	137	33	93	0	44	75
3	ARABIAN	MEXICO	3337	90	143	26	99	12	48	94
21	BEAGLE	MEXICO	3294	90	144	14	124	8	51	85
16	M2A(2)	MEXICO	3277	87	138	17	93	0	46	75
12	OCTO BULK - BUSH	MEXICO	3179	99	141	20	103	10	46	15
24	TEQUILA (BARLEY)	MEXICO	3162	90	134	0	75	0	47	92
15	CINNAMON	MEXICO	3142	89	139	20	98	11	49	15
2	NAVOJOA	MEXICO	3141	88	140	31	94	11	46	50
22	DRIRA	MEXICO	3084	102	146	10	121	0	52	90
18	IA-BULK E2	MEXICO	3079	84	130	33	99	5	44	90
23	73UM8518	CANADA	3067	104	148	0	110	2	44	40
8	YOCO(RESEL)	MEXICO	3045	93	142	35	93	17	45	20
1	YOREME TC75	MEXICO	2991	87	141	51	94	10	49	50
20	SIEVE CERROS (BREAD WHEAT)	MEXICO	2989	93	137	71	87	10	44	40
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2630	85	130	37	82	4	53	95
SUMMARY MEANS OVER VARIETIES			3311.7	89.0	139.7	23.9	98.0	7.4	47.0	71.1
NUMBER OF LOCATIONS FOR EACH VARIABLE			9	8	9	5	9	1	6	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			27	18	21	13	19	3	12	1

Table 75 REGION VIII. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Manitoba, Ontario and P.E.I., CANADA; Nebraska, Ohio, Montana and Washington, U.S.A.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT	PROT %
25	LOCAL CHECK		3285	63	65	106	0	95	8	44	33	15
21	BEAGLE	MEXICO	3118	55	62	107	80	101	9	43	78	14
23	73UM8518	CANADA	3065	53	64	108	0	94	11	35	22	15
11	F.S.1897	MEXICO	2920	57	60	105	0	93	4	37	67	15
6	MAPACHE	MEXICO	2909	55	60	104	80	89	4	38	89	14
22	DRIRA	MEXICO	2788	52	64	106	0	98	4	46	22	14
7	RAHUM	MEXICO	2782	54	60	100	45	89	1	34	78	15
13	MAYA I-ARM	MEXICO	2746	57	59	100	8	79	2	33	67	15
8	YOCO(RESEL)	MEXICO	2736	56	63	105	10	79	1	35	89	14
3	ARABIAN	MEXICO	2722	55	60	106	80	78	10	37	89	15
9	LINCE	MEXICO	2624	53	61	105	60	83	1	34	78	16
1	YOREME TC75	MEXICO	2486	54	61	106	60	80	25	36	89	16
5	NACUZARI (BREAD WHEAT)	MEXICO	2411	67	61	98	80	71	4	32	100	15
2	NAVOJOA	MEXICO	2392	56	60	104	60	80	2	35	89	14
15	CINNAMON	MEXICO	2391	53	60	105	-	81	35	39	100	15
4	BACUM	MEXICO	2385	58	59	99	50	85	5	34	89	14
12	OCTO BULK - BUSH	MEXICO	2339	60	62	105	80	86	13	40	89	14
16	M2A(2)	MEXICO	2331	54	61	99	-	79	2	37	100	15
14	M2A-IRA	MEXICO	2252	54	59	104	25	79	5	36	89	15
18	IA-BULK E2	MEXICO	2252	54	59	103	60	80	1	35	89	17
19	IRA-CAL	MEXICO	2109	58	59	104	41	75	6	33	89	15
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2100	69	66	100	80	76	21	30	100	14
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1847	69	61	98	0	68	10	39	78	15
17	IRA(2)	MEXICO	1793	57	59	99	24	72	5	32	89	16
24	TEQUILA (BARLEY)	MEXICO	1757	54	60	97	-	62	55	39	-	14
SUMMARY MEANS OVER VARIETIES			2501.6	57.0	61.0	102.7	42.0	82.0	9.6	36.6	79.3	14.8
NUMBER OF LOCATIONS FOR EACH VARIABLE			7	6	5	2	1	6	2	3	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			19	8	9	2	1	15	6	3	1	1

Table 76 REGION IX. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Santiago, DOMINICAN REP.; Atizapan, El Batan, Sonora (1st date and 2nd date), Guanajuato and Tlaxcala, MEXICO; California and Alabama, U. S. A.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	SHTR %	1000 G.W.	BYDV	YELL BERR
25	LOCAL CHECK		4721	63	87	169	4	102	88	1	56	22	7
21	BEAGLE	MEXICO	4625	63	83	169	10	116	50	0	62	0	3
6	MAPACHE	MEXICO	4613	64	77	164	6	99	2	2	62	22	8
13	MAYA I-ARM	MEXICO	4509	66	79	165	4	94	37	0	51	44	3
14	M2A-IRA	MEXICO	4499	65	73	165	8	93	7	0	59	33	10
11	F.S.1897	MEXICO	4374	67	77	167	17	103	62	2	60	44	2
18	IA-BULK E2	MEXICO	4362	66	75	161	13	93	73	0	53	44	3
9	LINCE	MEXICO	4279	63	80	166	11	95	20	2	63	33	0
12	OCTO BULK - BUSH	MEXICO	4274	66	85	167	20	97	0	5	61	67	1
15	CINNAMON	MEXICO	4251	64	80	166	24	94	2	1	59	33	5
19	IRA-CAL	MEXICO	4137	67	75	163	7	90	5	3	54	44	1
7	RAHUM	MEXICO	4129	65	81	166	5	100	43	3	59	33	1
4	BACUM	MEXICO	4094	65	75	163	7	92	87	1	46	11	6
3	ARABIAN	MEXICO	4037	65	80	165	5	91	0	10	60	22	10
2	NAVOJOA	MEXICO	3897	67	79	164	16	91	0	17	56	22	13
16	M2A(2)	MEXICO	3875	62	80	166	13	90	5	5	60	33	2
1	YOREME TC75	MEXICO	3850	65	78	163	42	91	0	17	66	11	3
17	IRA(2)	MEXICO	3804	64	73	161	36	85	2	18	52	44	3
22	DRIRA	MEXICO	3795	59	90	174	2	110	18	0	53	22	4
8	YOCO(RESEL)	MEXICO	3718	63	84	166	19	93	2	12	67	22	23
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3613	73	76	166	13	80	72	3	82	44	3
5	NACUZARI (BREAD WHEAT)	MEXICO	3612	73	76	166	17	81	27	13	52	22	0
23	73UM8518	CANADA	3300	59	89	171	3	103	30	0	70	11	2
24	TEQUILA (BARLEY)	MEXICO	3113	53	83	163	23	74	68	7	39	56	0
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2965	72	81	170	55	86	87	15	44	33	3
SUMMARY MEANS OVER VARIETIES			4017.9	64.7	79.0	165.5	15.1	93.6	32.1	5.5	57.8	30.9	4.6
NUMBER OF LOCATIONS FOR EACH VARIABLE			9	7	8	2	4	6	1	1	1	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			27	19	20	2	10	10	3	3	1	1	3

Table 75 REGION VIII. Summary for yield, agronomic and disease data for the 8th ITYN.

(Locations: Manitoba, Ontario and P.E.I., CANADA; Nebraska, Ohio, Montana and Washington, U.S.A.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT	PROT %
25	LOCAL CHECK		3285	63	65	106	0	95	8	44	33	15
21	BEAGLE	MEXICO	3118	55	62	107	80	101	9	43	78	14
23	73UM8518	CANADA	3065	53	64	108	0	94	11	35	22	15
11	P.S.1897	MEXICO	2920	57	60	105	0	93	4	37	67	15
6	MAPACHE	MEXICO	2909	55	60	104	80	89	4	38	89	14
22	DRIRA	MEXICO	2788	52	64	106	0	98	4	46	22	14
7	RAHUM	MEXICO	2782	54	60	100	45	89	1	34	78	15
13	MAYA I-ARM	MEXICO	2746	57	59	100	8	79	2	33	67	15
8	YOCO(RESEL)	MEXICO	2736	56	63	105	10	79	1	35	89	14
3	ARABIAN	MEXICO	2722	55	60	106	80	78	10	37	89	15
9	LINCE	MEXICO	2624	53	61	105	60	83	1	34	78	16
1	YOREME TC75	MEXICO	2486	54	61	106	60	80	25	36	89	16
5	NACUZARI (BREAD WHEAT)	MEXICO	2411	67	61	98	80	71	4	32	100	15
2	NAVOJOA	MEXICO	2392	56	60	104	60	80	2	35	89	14
15	CINNAMON	MEXICO	2391	53	60	105	-	81	35	39	100	15
4	BACUM	MEXICO	2385	58	59	99	50	85	5	34	89	14
12	OCTO BULK - BUSH	MEXICO	2339	60	62	105	80	86	13	40	89	14
16	M2A(2)	MEXICO	2331	54	61	99	-	79	2	37	100	15
14	M2A-IRA	MEXICO	2252	54	59	104	25	79	5	36	89	15
18	IA-BULK E2	MEXICO	2252	54	59	103	60	80	1	35	89	17
19	IRA-CAL	MEXICO	2109	58	59	104	41	75	6	33	89	15
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2100	69	66	100	80	76	21	30	100	14
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1847	69	61	98	0	60	10	39	78	15
17	IRA(2)	MEXICO	1793	57	59	99	24	72	5	32	89	16
24	TEQUILA (BARLEY)	MEXICO	1757	54	60	97	-	62	55	39	-	14

SUMMARY MEANS OVER VARIETIES	2501.6	57.0	61.0	102.7	42.0	82.0	9.6	36.6	79.3	14.8
NUMBER OF LOCATIONS FOR EACH VARIABLE	7	6	5	2	1	6	2	3	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE	19	8	9	2	1	15	6	3	1	1

Table 76 REGION IX. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Santiago, DOMINICAN REP.; Atizapan, El Batan, Sonora (1st date and 2nd date), Guanajuato and Tlaxcala, MEXICO; California and Alabama, U.S.A.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	SHTR %	1000 G.W.	BYDV	YELL BERR
25	LOCAL CHECK		4721	63	87	169	4	102	88	1	56	22	7
21	BEAGLE	MEXICO	4625	63	83	169	10	116	50	0	62	0	3
6	MAPACHE	MEXICO	4613	64	77	164	6	99	2	2	62	22	8
13	MAYA I-ARM	MEXICO	4589	66	79	165	4	94	37	0	51	44	3
14	M2A-IRA	MEXICO	4499	65	73	165	8	93	7	0	59	33	10
11	F.S.1897	MEXICO	4374	67	77	167	17	103	62	2	60	44	2
18	IA-BULK E2	MEXICO	4362	66	75	161	13	93	73	0	53	44	3
9	LINCE	MEXICO	4279	63	80	166	11	95	20	2	63	33	0
12	OCTO BULK - BUSH	MEXICO	4274	66	85	167	20	97	0	5	61	67	1
15	CINNAMON	MEXICO	4251	64	80	166	24	94	2	1	59	33	5
19	IRA-CAL	MEXICO	4137	67	75	163	7	90	5	3	54	44	1
7	RAHUM	MEXICO	4129	65	81	166	5	100	43	3	59	33	1
4	BACUM	MEXICO	4094	65	75	163	7	92	87	1	46	11	6
3	ARABIAN	MEXICO	4037	65	80	165	5	91	0	10	60	22	10
2	NAVOJOA	MEXICO	3897	67	79	164	16	91	8	17	56	22	13
16	M2A(2)	MEXICO	3875	62	80	166	13	90	5	5	60	33	2
1	YOREME TC75	MEXICO	3850	65	78	163	42	91	8	17	66	11	3
17	IRA(2)	MEXICO	3804	64	73	161	36	85	2	18	52	44	3
22	DRIRA	MEXICO	3795	59	90	174	2	110	10	0	53	22	4
8	YOCO(RESEL)	MEXICO	3718	63	84	166	19	93	2	12	67	22	23
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	3613	73	76	166	13	80	72	3	82	44	3
5	NACUZARI (BREAD WHEAT)	MEXICO	3612	73	76	166	17	81	27	13	52	22	0
23	73UM8510	CANADA	3300	59	89	171	3	103	30	0	70	11	2
24	TEQUILA (BARLEY)	MEXICO	3113	53	83	163	23	74	68	7	39	56	0
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2965	72	81	170	55	86	87	15	44	33	3
SUMMARY MEANS OVER VARIETIES			4017.9	64.7	79.8	165.5	15.1	93.6	32.1	5.5	57.8	30.9	4.6
NUMBER OF LOCATIONS FOR EACH VARIABLE			9	7	8	2	4	6	1	1	1	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			27	19	20	2	10	10	3	3	1	1	3

Table 77 REGION X. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Cochabamba, BOLIVIA; Cundinamarca, COLOMBIA; Lima, PERU.)

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.	SEPT TRIT
12	OCTO BULK - BUSH	MEXICO	2592	73	71	144	-	8	111	44	26
25	LOCAL CHECK		2561	83	72	146	-	5	111	39	48
11	F.S.1897	MEXICO	2559	72	67	148	8	0	112	44	22
24	TEQUILA (BARLEY)	MEXICO	2556	-	71	122	-	0	75	38	33
7	RAHUM	MEXICO	2414	70	68	147	-	1	108	50	11
19	IRA-CAL	MEXICO	2385	73	66	145	-	0	95	41	22
5	NACUZARI (BREAD WHEAT)	MEXICO	2352	82	67	137	24	0	83	40	26
21	BEAGLE	MEXICO	2291	-	72	153	0	0	127	49	29
16	M2A(2)	MEXICO	2272	-	65	148	-	0	96	41	26
1	YOREME TC75	MEXICO	2252	68	68	148	0	0	99	47	15
3	ARABIAN	MEXICO	2201	69	68	150	-	0	100	45	22
8	YOCO(RESEL)	MEXICO	2180	70	72	148	-	2	101	38	15
6	MAPACHE	MEXICO	2171	-	65	144	0	1	107	42	11
22	DRIRA	MEXICO	2167	-	73	152	-	0	123	48	7
4	BACUM	MEXICO	2157	-	64	147	-	1	102	42	11
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2156	83	70	140	24	0	89	39	56
9	LINCE	MEXICO	2010	66	66	142	-	0	97	44	15
18	IA-BULK E2	MEXICO	2006	67	66	145	-	0	96	44	22
13	MAYA I-ARM	MEXICO	1958	-	67	145	-	1	94	41	26
15	CINNAMON	MEXICO	1935	-	67	146	-	20	101	45	37
2	NAVOJOA	MEXICO	1930	70	67	146	-	0	92	43	26
17	IRA(2)	MEXICO	1808	-	66	151	-	0	89	39	22
23	73UM8518	CANADA	1771	-	70	151	1	0	107	43	11
14	M2A-IRA	MEXICO	1651	-	64	143	-	1	94	43	44
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1551	78	67	142	-	0	84	53	48

SUMMARY MEANS OVER VARIETIES	2155.4	73.1	68.2	144.9	8.1	1.6	99.5	43.0	25.2
NUMBER OF LOCATIONS FOR EACH VARIABLE	3	1	3	2	1	1	2	2	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE	9	1	9	5	1	1	5	4	3

Table 78 REGION XI. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Distrito Federal, Rio Grande Do Sul and Parana, BRAZIL.)

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 %	SEPT TRIT	SEPT NODO
6	MAPACHE	MEXICO	2454	59	54	136	1	2	87	35	0	75	25
22	DRIRA	MEXICO	2329	59	68	139	3	0	87	44	0	0	-
12	OCTO BULK - BUSH	MEXICO	2263	66	63	139	9	4	83	34	0	25	50
7	RAHUM	MEXICO	2247	56	59	138	9	8	83	32	0	50	25
21	BEAGLE	MEXICO	2163	59	63	139	10	10	92	40	0	25	0
11	F.S.1897	MEXICO	2108	63	57	137	13	7	85	32	0	0	25
3	ARABIAN	MEXICO	1840	63	59	135	25	2	77	34	0	0	50
2	NAVOJOA	MEXICO	1828	64	58	135	22	5	77	28	0	25	25
13	MAYA I-ARM	MEXICO	1754	61	56	136	5	4	75	30	0	25	25
15	CINNAMON	MEXICO	1735	60	58	136	2	3	77	37	0	75	25
4	BACUM	MEXICO	1696	64	51	130	28	1	75	34	0	75	25
9	LINCE	MEXICO	1665	55	56	136	6	9	77	34	0	0	0
8	YOCO(RESEL)	MEXICO	1654	63	61	130	25	0	75	30	0	75	50
16	M2A(2)	MEXICO	1637	58	54	130	3	2	73	37	0	25	25
19	IRA-CAL	MEXICO	1630	65	54	130	0	27	75	30	0	25	25
1	YOREME TC75	MEXICO	1581	61	59	136	25	9	75	36	0	25	25
14	M2A-IRA	MEXICO	1568	58	53	138	17	5	72	31	0	25	25
23	73UM8518	CANADA	1554	53	73	148	6	0	82	35	0	50	25
18	IA-BULK E2	MEXICO	1478	58	53	131	25	10	70	28	0	25	50
24	TEQUILA (BARLEY)	MEXICO	1291	52	74	144	-	28	58	36	100	-	-
25	LOCAL CHECK		1257	76	66	131	37	20	90	34	60	75	75
17	IRA(2)	MEXICO	1198	54	50	118	45	30	65	25	0	75	50
5	NACUZARI (BREAD WHEAT)	MEXICO	906	70	55	118	47	21	62	32	80	100	75
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	853	66	62	128	13	3	70	42	0	100	50
20	SIETE CERROS (BREAD WHEAT)	MEXICO	570	71	61	127	27	40	65	30	0	75	75
SUMMARY MEANS OVER VARIETIES			1650.4	61.3	58.8	133.8	16.7	10.0	76.2	33.4	9.6	43.8	35.9
NUMBER OF LOCATIONS FOR EACH VARIABLE			3	3	2	1	3	3	3	2	1	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			9	3	2	1	3	3	3	2	1	1	1

Table 79 REGION XII. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Victoria, AUSTRALIA; Manawatu, NEW ZEALAND.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	LODG %	1000 G.W.
25	LOCAL CHECK		8124	75	75	80	0	31
5	NACUZARI (BREAD WHEAT)	MEXICO	7612	70	73	94	33	33
13	MAYA I-ARM	MEXICO	7533	63	71	100	22	34
9	LINCE	MEXICO	7040	63	71	104	44	38
22	DRIRA	MEXICO	6951	62	73	105	0	58
12	OCTO BULK - BUSH	MEXICO	6898	68	71	108	0	38
3	ARABIAN	MEXICO	6880	63	71	102	22	37
20	SIETE CERROS (BREAD WHEAT)	MEXICO	6743	75	76	90	22	30
19	IRA-CAL	MEXICO	6644	63	68	96	33	30
8	YOCO (RESEL)	MEXICO	6482	65	73	99	33	41
21	BEAGLE	MEXICO	6436	64	74	110	22	36
4	BACUM	MEXICO	6363	61	69	103	33	28
6	MAPACHE	MEXICO	6295	62	72	104	44	39
18	IA-BULK E2	MEXICO	6216	63	68	100	44	35
11	F.S.1897	MEXICO	6105	66	73	110	33	39
14	M2A-IRA	MEXICO	6069	64	69	102	22	36
2	NAVOJOA	MEXICO	6066	67	71	98	44	37
16	M2A(2)	MEXICO	5944	60	72	98	44	40
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	5939	74	69	93	22	46
7	RAHUM	MEXICO	5937	62	71	103	78	34
15	CINNAMON	MEXICO	5840	64	71	99	22	46
23	73UM8518	CANADA	5802	64	76	101	11	39
1	YOHEME TC75	MEXICO	5556	64	72	101	33	43
17	IRA(2)	MEXICO	4981	63	69	98	44	33
24	TEQUILA (BARLEY)	MEXICO	1420	55	64	70	11	22

SUMMARY MEANS OVER VARIETIES		6234.8	64.6	71.3	98.5	28.6	36.9
NUMBER OF LOCATIONS FOR EACH VARIABLE		2	2	1	2	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE		5	3	3	4	1	2

Table 80 REGION XIII. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Hokkaido, JAPAN; Luzon, PHILIPPINES, Chunnam, SOUTH KORA.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.	EARS /M2
25	LOCAL CHECK		3054	76	58	92	60	91	31	600
5	NACUZARI (BREAD WHEAT)	MEXICO	2889	76	51	96	47	76	32	669
13	MAYA I-ARM	MEXICO	2864	63	52	93	30	83	29	598
6	MAPACHE	MEXICO	2794	63	51	92	5	92	34	611
7	RAHUM	MEXICO	2698	63	56	95	5	92	31	542
3	ARABIAN	MEXICO	2687	61	54	96	20	81	35	578
19	IRA-CAL	MEXICO	2682	67	52	92	15	81	33	522
4	BACUM	MEXICO	2650	66	47	89	7	86	34	564
11	F.S.1897	MEXICO	2555	64	51	96	20	93	32	576
14	M2A-IRA	MEXICO	2546	60	49	90	17	84	33	684
21	BEAGLE	MEXICO	2449	63	61	100	12	104	36	500
22	DRIRA	MEXICO	2448	59	60	99	5	97	37	478
16	M2A(2)	MEXICO	2447	59	51	89	27	81	32	589
9	LINCE	MEXICO	2431	61	54	94	37	86	30	547
2	NAVOJOA	MEXICO	2421	62	52	93	33	80	31	622
12	OCTO BULK - BUSH	MEXICO	2394	67	58	95	23	86	34	560
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2380	76	53	93	67	78	29	556
8	YOCO(RESEL)	MEXICO	2341	61	57	94	53	82	30	542
24	TEQUILA (BARLEY)	MEXICO	2284	57	65	97	0	67	37	546
1	YOREME TC75	MEXICO	2272	60	52	90	47	82	33	487
15	CINNAMON	MEXICO	2271	60	52	93	33	83	33	496
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2124	71	62	95	30	76	36	525
18	IA-BULK E2	MEXICO	2065	62	52	91	37	81	30	611
17	IRA(2)	MEXICO	1873	60	48	86	47	79	30	558
23	73UM8518	CANADA	1709	62	61	100	20	91	32	438
SUMMARY MEANS OVER VARIETIES			2453.1	63.7	54.1	93.3	27.9	84.5	32.6	560.0
NUMBER OF LOCATIONS FOR EACH VARIABLE			3	2	2	2	1	3	3	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			9	4	6	6	3	9	9	3

Table 81 REGION XIV. Summary for yield, agronomic and disease data for the 9th ITYN.

(Locations: Orange Free State and Cape Province, SOUTH AFRICA.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %	SEPT TRIT
21	BEAGLE	MEXICO	3535	62	78	113	1	0	109	2	44
25	LOCAL CHECK		3438	72	84	114	0	0	103	10	44
13	MAYA I-ARM	MEXICO	3423	63	73	105	0	1	87	2	33
12	OCTO BULK - BUSH	MEXICO	3106	64	81	105	1	0	92	0	44
11	F.S.1897	MEXICO	2871	63	73	111	20	10	93	2	44
23	73UM8518	CANADA	2869	60	88	113	1	0	103	3	33
3	ARABIAN	MEXICO	2852	62	75	108	1	5	84	0	44
7	RAHUM	MEXICO	2842	64	73	105	2	0	92	2	44
6	MAPACHE	MEXICO	2831	59	73	102	0	0	91	0	33
14	M2A-IRA	MEXICO	2689	63	71	104	1	0	82	5	44
9	LINCE	MEXICO	2677	61	73	103	20	0	88	0	56
18	IA-BULK E2	MEXICO	2633	61	70	104	1	0	80	0	44
1	YOREME TC75	MEXICO	2608	62	75	102	10	0	90	3	56
15	CINNAMON	MEXICO	2598	61	74	109	20	0	86	0	56
4	BACUM	MEXICO	2553	62	71	100	40	0	84	5	56
2	NAVOJOA	MEXICO	2538	64	74	107	5	0	78	2	44
8	YOCO(RESEL)	MEXICO	2505	63	78	109	40	0	83	3	56
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2303	68	78	99	-	60	76	2	56
16	M2A(2)	MEXICO	2247	57	74	100	1	10	78	0	56
19	IRA-CAL	MEXICO	2210	59	72	97	-	50	80	2	67
22	DRIRA	MEXICO	2053	60	75	114	4	0	102	5	44
17	IRA(2)	MEXICO	1868	58	71	96	-	15	90	2	56
5	NACOZARI (BREAD WHEAT)	MEXICO	1858	70	74	97	1	50	78	3	56
24	TEQUILA (BARLEY)	MEXICO	1836	57	86	92	-	40	61	10	56
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	1000	67	73	101	-	0	73	8	44
SUMMARY MEANS OVER VARIETIES			2557.5	62.2	75.2	104.4	8.5	9.6	86.3	2.8	48.4
NUMBER OF LOCATIONS FOR EACH VARIABLE			2	2	2	1	1	1	2	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			6	4	4	3	1	1	4	3	1

Table 82.

MEAN OVER ALL LOCATIONS FOR YIELD, AGRONOMIC AND DISEASE DATA FOR THE 9TH INTERNATIONAL TRITICALE YIELD NURSERY 1977-78.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	1000 G.W.	POWD %	SEPT TRIT
25	LOCAL CHECK		3900	72	89	141	49	27	35	96	15	10	42	46	52
6	MAPACHE	MEXICO	3842	63	84	141	11	11	2	98	11	8	42	17	44
21	BEAGLE	MEXICO	3820	63	89	146	23	17	7	112	22	8	46	18	35
13	MAYA I-ARM	MEXICO	3721	64	84	141	16	11	7	89	18	10	38	18	35
11	F.S.1897	MEXICO	3669	66	84	143	5	15	5	102	25	12	42	15	33
7	RAHUM	MEXICO	3571	63	85	141	5	12	4	97	25	15	41	24	40
12	OCTO BULK - BUSH	MEXICO	3566	67	90	142	4	21	3	96	8	18	43	20	40
5	NACCOZARI (BREAD WHEAT)	MEXICO	3508	74	86	138	28	25	25	81	13	13	39	60	63
9	LINCE	MEXICO	3503	62	85	142	4	16	4	92	12	14	41	27	36
4	BACUM	MEXICO	3497	65	82	139	4	20	4	92	32	15	40	21	48
3	ARABIAN	MEXICO	3491	64	86	144	4	19	5	90	8	21	42	29	38
22	DRIRA	MEXICO	3475	59	92	146	4	8	3	108	15	5	50	19	19
8	YOCO(RESEL)	MEXICO	3451	64	88	143	4	26	4	89	6	23	41	22	50
14	M2A-IRA	MEXICO	3443	63	82	142	4	12	4	89	18	10	41	18	45
16	M2A(2)	MEXICO	3336	61	85	140	24	8	5	88	11	15	41	22	49
2	NAVOJOA	MEXICO	3328	65	85	142	4	23	9	88	10	23	41	16	42
15	CINNAMON	MEXICO	3316	63	85	142	6	19	3	91	13	10	44	21	52
19	IRA-CAL	MEXICO	3274	65	82	138	22	14	36	86	13	14	39	29	45
23	73UM8518	CANADA	3261	61	95	148	4	3	1	101	17	13	42	11	26
1	YOREME TC75	MEXICO	3227	63	85	142	3	33	7	89	13	25	44	11	39
18	IA-BULK E2	MEXICO	3128	64	82	139	4	20	7	88	26	10	39	25	39
20	SIETE CERROS (BREAD WHEAT)	MEXICO	2992	74	90	140	44	52	33	85	23	19	36	34	66
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	2846	72	85	139	32	22	24	80	27	9	49	26	56
17	IRA(2)	MEXICO	2746	62	81	138	4	28	25	85	16	19	38	24	53
24	TEQUILA (BARLEY)	MEXICO	2615	56	86	134	0	14	24	73	30	16	40	59	56
SUMMARY MEANS OVER VARIETIES			3381.1	64.5	85.8	141.2	12.3	19.0	11.4	91.4	17.1	14.2	41.7	25.3	44.0
NUMBER OF LOCATIONS FOR EACH VARIABLE			67	40	55	30	4	25	9	58	13	3	39	5	7
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			194	89	131	71	8	51	15	144	35	9	86	13	14

Table 82. Cond't. Summary

VAR NO.	VARIETY OR CROSS	ORIGIN	SEPT NODO	SCAB %	BYDV %	EARS /M2	YELL BERR	FERT %	PROT %
25	LOCAL CHECK		62	13	22	600	7	85	16
6	MAPACHE	MEXICO	22	10	22	611	8	85	14
21	BEAGLE	MEXICO	17	5	0	500	3	85	14
13	MAYA I-ARM	MEXICO	37	5	44	598	3	85	15
11	F.S.1897	MEXICO	27	10	44	576	2	75	15
7	RAHUM	MEXICO	29	10	33	542	1	96	15
12	OCTO BULK - BUSH	MEXICO	49	8	67	560	1	15	14
5	NACUZARI (BREAD WHEAT)	MEXICO	54	35	22	669	0	92	16
9	LINCE	MEXICO	17	10	33	547	0	75	16
4	BACUM	MEXICO	29	10	11	564	6	80	14
3	ARABIAN	MEXICO	46	15	22	578	10	94	14
22	DRIRA	MEXICO	33	8	22	478	4	90	13
8	YOCO(RESEL)	MEXICO	42	13	22	542	23	20	14
14	M2A-IRA	MEXICO	33	10	33	684	10	85	15
16	M2A(2)	MEXICO	28	8	33	589	2	75	15
2	NAVOJOA	MEXICO	41	15	22	622	13	50	14
15	CINNAMON	MEXICO	29	10	33	496	5	15	15
19	IRA-CAL	MEXICO	28	15	44	522	1	94	16
23	73UM8518	CANADA	29	10	11	438	2	40	15
1	YOREME TC75	MEXICO	37	13	11	487	3	50	16
18	IA-BULK E2	MEXICO	46	8	44	611	3	90	17
20	SIETE CERROS (BREAD WHEAT)	MEXICO	38	40	33	556	3	40	14
10	MEXICALI 75 (DURUM WHEAT)	MEXICO	42	-	44	525	3	95	16
17	IRA(2)	MEXICO	46	25	44	558	3	75	17
24	TEQUILA (BARLEY)	MEXICO	-	-	56	546	0	92	14

SUMMARY MEANS OVER VARIETIES	35.6	13.3	30.9	560.0	4.6	71.1	14.8
NUMBER OF LOCATIONS FOR EACH VARIABLE	2	1	1	1	1	1	2
NUMBER OF OBSERVATIONS FOR EACH VARIABLE	4	2	1	3	3	1	4

APPENDIX

Location tables for data returned

from the 8th ITYN, 1976–77.

8TH ITYN

LOCATION 69 EUROPE

ENGLAND

CAMBRIDGE

P.B.I.

G.C.M.SAGE

LATITUDE 052 10'N

DATE PLANTED 3/10/77

NITROGEN

APPLIED

LONGITUDE 000 06'E

DATE HARVESTED 8/20/77

PHOSPHORUS

APPLIED

ELEVATION 0017 M.ABOVE S.L.

AMOUNT OF MOISTURE 239 MM

POTASSIUM

APPLIED

NORMAL SOWING TIME. MOIST CONDITIONS OF SOIL AT SOWING. GOOD GERMINATION.
COLD AND DRY DURING THE GROWING SEASON. WET AT HARVESTING
NO INSECT NEED OR PEST PROBLEMS
LOCAL CHECK DISCARDED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	PLNT HT
24	BEAVER-ARM	CANADA	4495	96	0	97
19	BEAGLE (RESEL)	MEXICO	4313	100	29	119
6	MAPACHE	MEXICO	4204	96	17	101
18	F.S. 1897	MEXICO ***	3923	97	2	109
23	6TA 204-BCO 90	CANADA	3895	107	18	145
7	MAPACHE#5#	MEXICO	3814	96	12	100
3	BACUM	MEXICO	3805	95	0	99
4	ARABIAN	MEXICO	3777	95	0	89
21	DRIRA	MEXICO	3714	101	2	106
14	MAYA I - ARM#5#	MEXICO	3677	95	0	87
8	SETTER	MEXICO	3650	100	43	95
10	MEXICALI 75	MEXICO	3632	100	3	87
12	LINCE	MEXICO	3623	96	0	95
11	YOCO (RESEL)	MEXICO	3487	96	0	91
13	RAHUM	MEXICO	3378	95	0	98
5	JUPATECO F 73 (BREAD WHEAT)	MEXICO	3341	96	90	87
9	KOALA#5#	MEXICO	3269	102	27	89
22	UC 8825	U.S.A.	3087	103	22	120
2	NAVOJOA	MEXICO	3015	95	0	86
1	YOREME TC 75	MEXICO	2969	97	0	92
15	SIETE CERROS (BREAD WHEAT)	MEXICO	2742	104	87	91
20	CINNAMON (TRITICALE)	MEXICO	2679	95	3	92
17	IRA (2)	MEXICO	2497	96	7	89
16	OCTO BULK - BUSH	MEXICO	2479	94	0	94
25	LOCAL CHECK		-	-	-	-

GRAND MEAN	3477.6	97.8	15.1	98.2
STANDARD ERROR OF GRAND MEAN	35.1	0.0	0.8	0.4
COEFFICIENT OF VARIATION AS PC	8.6	0.7	46.1	3.4
LSD VARIETY MEANS 5 PC	489.6	1.1	11.4	5.4

CORRELATIONS				
YIELD KG/HA				
FLOW DAYS	0.07			
STRP RT.L	-0.13	0.43		
PLNT HT	0.38	0.61	-0.02	

BTH ITYN

LOCATION 133 NORTH AMERICA

MEXICO

SONORA

CIANO (2ND DATE)

CIMHYT

LATITUDE 027 20'N

DATE PLANTED

12/ 1/76

LONGITUDE 109 54'W

DATE HARVESTED

---/---/---

ELEVATION 0038 M. ABOVE S.L.

AMOUNT OF MOISTURE

--- MM

NITROGEN
PHOSPHORUS
POTASSIUM

APPLIED
APPLIED

NORMAL SOWING TIME. DRY CONDITIONS OF SOIL AT SOWING. MODERATE GERMINATION. GENERAL DESCRIPTION OF WEATHER CONDITIONS NOT REPORTED. SOME INSECT PROBLEM. LOCAL CHECK: MAYA I-ARM PS.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT	LDG %
6	MAPACHE	MEXICO	8612	71	70	10MR-R	112	10
10	MEXICALI 75	MEXICO ***	7251	82	72	TR	87	0
13	RAMUM	MEXICO	7305	72	75	5MR	110	30
25	LOCAL CHECK		7049	73	76	TR	102	40
12	LINCE	MEXICO	6959	70	73	5MR	107	0
7	MAPACHE*5*	MEXICO	6889	70	71	10MS	100	0
16	OCTO BULK - BUSH	MEXICO	6862	73	74	20MR-R	100	0
14	MAYA I - ARM*5*	MEXICO	6853	73	73	10M	112	0
2	NAVOJOA	MEXICO	6757	71	74	3MR	95	0
18	F.S. 1897	MEXICO	6605	72	72	TMS	117	0
1	YOREME TC 75	MEXICO	6563	69	74	10MR	102	10
4	ARABIAN	MEXICO	6459	69	75	TR	98	0
19	BEAGLE (RESEL)	MEXICO	6362	68	80	TR	125	0
21	DRIRA	MEXICO	6341	61	87	20MR	115	0
9	KOALA*5*	MEXICO	6299	69	76	20M	92	0
17	IRA (2)	MEXICO	6257	72	74	20M	88	0
11	YOCO (RESEL)	MEXICO	6188	67	82	TR	95	0
8	SETTER	MEXICO	6125	68	85	10M	102	0
3	BACUM	MEXICO	6105	72	70	TR	103	0
24	BEAVER-ARM	CANADA	5882	68	79	TR	100	10
15	SIETE CERROS (BREAD WHEAT)	MEXICO	5813	80	76	40S	90	0
23	6TA 204-BCO 90	CANADA	5771	64	85	TMS	127	0
20	CINNAMON (TRITICALE)	MEXICO	5667	68	74	10MR	97	0
5	JUPATECO F 73 (BREAD WHEAT)	MEXICO	5299	81	73	99S	93	0
22	UC 8825	U.S.A.	4313	66	86	40S	118	0

GRAND MEAN	6415.5	70.8	76.3	9.6	104.1
STANDARD ERROR OF GRAND MEAN	58.6	0.1	0.3	0.5	0.4
COEFFICIENT OF VARIATION AS PC	7.9	1.2	3.4	42.5	3.7
LSD VARIETY MEANS 5 PC	833.6	1.4	4.2	6.7	6.4

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT
	0.18			
	-0.54	-0.62		
	-0.53	0.41	0.04	
	-0.02	-0.57	0.39	-0.20

8TH ITYN

LOCATION 155 SOUTH AMERICA

ARGENTINA

CORDOBA

MARCOS JUAREZ

R.FOGNATE

LATITUDE 032 42'S

DATE PLANTED --/--

NITROGEN --

LONGITUDE 062 07'W

DATE HARVESTED --/--

PHOSPHORUS --

ELEVATION 0110 M.ABOVE S.L.

AMOUNT OF MOISTURE -- MM

POTASSIUM --

NORMAL SOWING TIME. MOIST CONDITIONS OF SOIL AT SOWING.
LACK OF MOISTURE PLUS HIGH TEMPERATURES ACCELERATED THE GROWING CYCLE
AFFECTING GRAINS YIELD. NO INSECT, WEED OR PEST PROBLEMS
LOCAL CHECK NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	LEAF RUST	PLNT HT	1000 G.W.	SEPT TRIT
5	JUPATECO F 73 (BREAD WHEAT)	MEXICO	2255	75	50S	65	27	55
19	BEAGLE (RESEL)	MEXICO	2133	66	5MR	100	27	22
8	SETTER	MEXICO	1900	63	40S	70	28	55
14	MAYA I - ARM'S	MEXICO ***	1878	65	40S	75	30	44
25	LOCAL CHECK		1878	76	60S	60	26	55
18	F.S. 1897	MEXICO	1800	63	40S	85	28	44
23	ATA 204-800 90	CANADA	1722	63	50S	110	29	33
6	MAPACHE	MEXICO	1689	59	30S	80	26	55
24	BEAVER-ARM	CANADA	1678	62	40S	75	27	22
13	RAHUM	MEXICO	1667	60	10MS	80	29	33
21	DRIRA	MEXICO	1633	61	50S	95	28	44
3	RACUM	MEXICO	1633	61	50S	80	29	44
7	MAPACHE'S	MEXICO	1622	56	20S	80	27	44
1	YOREME TC 75	MEXICO	1489	59	50S	70	31	55
10	MEXICALI 75	MEXICO	1422	67	40S	65	30	55
12	LINCE	MEXICO	1411	58	30S	75	28	33
2	NAVOJOA	MEXICO	1389	58	40S	75	56	44
16	OCTO BULK - BUSH	MEXICO	1367	58	50S	75	30	33
9	KOALA'S	MEXICO	1355	60	50S	70	28	55
11	YOCO (RESEL)	MEXICO	1344	65	80S	75	28	55
20	CINNAMON (TRITICALE)	MEXICO	1189	58	40S	70	29	44
17	IRA (2)	MEXICO	1178	57	30S	70	39	33
4	ARABIAN	MEXICO	1167	59	60S	75	39	44
15	SIETE CERROS (BREAD WHEAT)	MEXICO	1122	62	40S	60	29	55
22	UC 8825	U.S.A.	878	60	50S	100	27	44

GRAND MEAN 1551.8 62.1 41.6 77.4 30.3 44.0
STANDARD ERROR OF GRAND MEAN 23.8
COEFFICIENT OF VARIATION AS PC 13.3
LSD VARIETY MEANS 5 PC 338.6

YIELD KG/HA		CORRELATIONS				
TEST	WT	0.60				
LEAF	RUST	-0.27	0.26			
PLNT	HT	0.09	-0.21	-0.20		
1000	G.W.	-0.31	-0.32	0.03	-0.12	
SEPT	TRIT	-0.07	0.29	0.50	-0.51	-0.07

8TH ITYN

LOCATION 183 AFRICA

ETHIOPIA

SHOA

HOLETTA

CEREAL STAFF

LATITUDE 009 00"N

DATE PLANTED 6/30/77

NITROGEN APPLIED

LONGITUDE 038 30"E

DATE HARVESTED 11/30/77

PHOSPHORUS APPLIED

ELEVATION 2390 M. ABOVE S.L.

AMOUNT OF MOISTURE 777 MM

POTASSIUM --

NORMAL SOWING TIME. MOIST CONDITIONS OF SOIL AT SOWING. GOOD GERMINATION.
 NORMAL TILL MID-OCTOBER. UNUSAL RAINS TILL END OF OCTOBER. WEED AND PEST
 PROBLEMS. LOCAL CHECK: NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.	SEPT TRIT	BACT STRP
5	JUPATECO F 73 (BREAD WHEAT)	MEXICO	2287	69	129	0	83	35	95	33
15	SIETE CERROS (BREAD WHEAT)	MEXICO	2088	73	130	10R-MR	75	31	100	17
6	MAPACHE	MEXICO	2043	68	132	T-5R	100	36	78	55
7	MAPACHE*5*	MEXICO	1990	69	131	25R	93	36	89	44
4	ARABIAN	MEXICO	1972	72	136	10R	93	38	61	50
16	OCTO BULK - BUSH	MEXICO	1963	69	132	T-5R	98	40	61	61
1	YOREME TC 75	MEXICO	1937	69	133	T-5R	87	41	56	33
20	CINNAMON (TRITICALE)	MEXICO	1883	68	135	30MS	98	44	73	39
25	LOCAL CHECK		1847	73	137	30R	92	34	61	67
13	RAHUM	MEXICO	1842	68	132	T-5MR	102	35	73	55
11	YOCO (RESEL)	MEXICO ***	1750	73	134	10MS	87	37	73	50
10	MEXICALI 75	MEXICO	1727	68	129	60MS	77	38	95	28
2	NAVOJOA	MEXICO	1725	68	131	10MR	87	36	73	28
23	6TA 204-BCO 90	CANADA	1693	80	142	10MR	125	36	50	67
12	LINCE	MEXICO	1673	68	132	T-5R	92	40	67	33
3	BACUM	MEXICO	1637	65	131	5-10R	95	35	73	22
18	F.S. 1897	MEXICO	1625	67	137	T-5R	105	41	67	55
24	BEAVER-ARM	CANADA	1618	71	133	10MR	93	33	73	39
17	IRA (2)	MEXICO	1610	62	130	15MS	83	32	95	28
22	UC 8825	U.S.A.	1575	80	141	80M (107	36	50	55
19	BEAGLE (RESEL)	MEXICO	1563	74	137	0	108	39	50	67
21	ORIRA	MEXICO	1540	78	143	30R-MR	95	45	39	17
14	MAYA I - ARM*5*	MEXICO	1450	66	131	0	83	30	72	22
9	KOALA*5*	MEXICO	1417	74	135	10MR	82	43	33	33
8	SETTER	MEXICO	1292	81	139	0	90	31	73	22

GRAND MEAN	1749.9	70.9	134.1	8.6	92.9	36.7	68.9	40.6
STANDARD ERROR OF GRAND MEAN	30.9	0.1	0.2	0.6	0.8		1.4	2.0
COEFFICIENT OF VARIATION AS PC	15.3	1.5	1.2	45.7	7.4		16.9	35.4
LSD VARIETY MEANS 5 PC	438.9	1.7	2.6	8.1	11.3		24.1	29.7

CORRELATIONS

YIELD KG/HA								
FLOW DAYS	-0.30							
MAT DAYS	-0.45	0.82						
LEAF RUST	-0.18	0.20	0.15					
PLNT HT	-0.11	0.37	0.65	-0.07				
1000 G.W.	0.00	0.07	0.33	0.10	0.20			
SEPT TRIT	0.46	-0.54	-0.75	-0.01	-0.51	-0.57		
NOT USED	0.19	0.19	0.34	-0.00	0.70	0.74	-0.33	

8TH ITYN

LOCATION 184 AFRICA

ETHIOPIA

SHOA

INDIBER

LATITUDE		DATE PLANTED	7/ 6/77	NITROGEN	APPLIED
LONGITUDE		DATE HARVESTED	11/ 9/77	PHOSPHORUS	APPLIED
ELEVATION	2050 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING TIME. MOIST CONDITIONS OF SOIL AT SOWING. GOOD GERMINATION.
HEAVY RAINS DURING THE MATURITY SATGE, THEREFORE MOST OF THE ENTREIES
WERE SPROUTED. NO INSECT; WEED OR PEST PROBLEMS.
LOCAL CHECK NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.	SEPT TRIT	BACT STRP
25	LOCAL CHECK		4740	67	62	121	0	107	39	17	0
1	YOREME TC 75	MEXICO	4670	68	59	108	TMS	98	45	28	5
24	BEAVER-ARM	CANADA	4630	70	62	118	TS	96	39	56	0
6	MAPACHE	MEXICO	4470	64	58	110	0	100	41	67	11
23	6TA 204-8CO 90	CANADA	4428	64	68	119	TS	131	35	18	22
16	OCTO BULK - BUSH	MEXICO	4407	67	60	115	0	102	46	33	17
2	NAVOJOA	MEXICO	4372	70	60	114	0	94	40	39	0
20	CINNAMON (TRITICALE)	MEXICO	4308	67	61	111	ISS	92	44	61	0
18	F.S. 1897	MEXICO	4242	69	59	118	0	109	40	73	50
14	MAYA I - ARM*5*	MEXICO	4113	67	59	110	0	93	38	44	0
21	DRIRA	MEXICO	4058	63	67	126	10MS	106	49	6	17
8	SETTER	MEXICO	4037	69	67	121	30S	98	38	67	0
11	YOCO (RESEL)	MEXICO	4032	69	64	116	10S	92	38	61	11
13	RAHUM	MEXICO	4013	66	60	113	0	96	39	55	5
7	MAPACHE*5*	MEXICO	3945	64	59	110	0	94	41	78	17
3	BACUM	MEXICO	3875	66	52	112	T-5S	92	37	33	11
12	LINCE	MEXICO	3847	64	59	111	1	92	40	39	5
4	ARABIAN	MEXICO	3777	68	61	115	0	93	40	56	28
9	KOALA*5*	MEXICO ***	3612	66	62	116	5S	96	40	50	5
19	BEAGLE (RESEL)	MEXICO	3893	67	63	119	0	109	44	61	17
17	IRA (2)	MEXICO	2933	64	50	110	10S	84	35	73	5
22	UC 8825	U.S.A.	2838	65	66	121	90S	113	36	0	0
5	JUPATECO F 73 (BREAD WHEAT)	MEXICO	2562	75	61	109	0	92	33	100	0
15	SIETE CERROS (BREAD WHEAT)	MEXICO	1773	68	61	110	0	84	28	100	0
10	MEXICALI 75	MEXICO	1027	-	59	110	-	75	26	89	0

GRAND MEAN	3752.1	67.0	60.8	114.5	9.3	97.4	39.3	52.3	9.0
STANDARD ERROR OF GRAND MEAN	63.9	0.2	0.2	0.9	0.4	2.4	2.0		
COEFFICIENT OF VARIATION AS PC	14.8	2.9	1.6	70.6	3.3	32.2	152.9		
LSD VARIETY MEANS 5 PC	909.1	2.9	3.1	13.6	5.3	34.8	28.5		

CORRELATIONS

YIELD KG/HA											
TEST WT	-0.10										
FLOW DAYS	0.11	0.07									
MAT DAYR	0.27	-0.16	0.68								
LEAF RUST	-0.51	-0.12	0.18	0.11							
PLNT HT	0.49	-0.24	0.56	0.66	-0.04						
1000 G.W.	0.58	-0.29	0.15	0.30	-0.18	0.28					
SEPT TRIT	-0.52	0.42	-0.29	-0.55	-0.18	-0.58	-0.48				
NOT USED	0.24	-0.16	0.02	0.27	-0.27	0.44	0.30	-0.00			

8TH ITYN

LOCATION 287 SOUTH AMERICA

ARGENTINA

BUENOS AIRES

BORDENAVE

S.GARBINI

LATITUDE 037 55'S

LONGITUDE 063 01'W

ELEVATION 0212 M.ABOVE S.L.

DATE PLANTED

6/15/77

DATE HARVESTED

12/20/77

AMOUNT OF MOISTURE

-- MM

NITROGEN

PHOSPHORUS

POTASSIUM

NORMAL SOWING TIME. GOOD GERMINATION. DROUGHT TILL MID-OCTOBER LATER
HEAVY RAINS TILL END OF THE GROWING CYCLE. FROST DAMAGE DURING SEPTEMBER.
SOME INSECT PROBLEMS. LOCAL CHECK. KLEIN FORTIN.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	SHTR %	1000 G.W.	FRST DMGE
6	MAPACHE	MEXICO	2766	67	91	145	93	0	42	23
18	F.S. 1897	MEXICO	2700	66	95	149	97	0	40	27
1	YOREME TC 75	MEXICO	2544	61	95	148	88	0	42	17
3	BACUM	MEXICO	2528	67	93	144	87	0	35	20
12	LINCE	MEXICO	2494	60	93	148	83	8	40	15
2	NAVOJOA	MEXICO	2494	71	94	146	82	35	37	20
24	BEAVER-ARM	CANADA	2489	63	92	148	90	0	38	17
21	DRIRA	MEXICO	2483	62	96	148	90	0	52	10
14	MAYA I - ARM'S	MEXICO	2478	71	87	146	87	0	41	25
13	RAHUM	MEXICO	2466	63	91	148	87	0	41	12
16	OCTO BULK - BUSH	MEXICO	2333	63	93	145	87	0	45	47
7	MAPACHE'S	MEXICO	2255	66	93	147	85	0	39	7
11	YOCO(RESEL)	MEXICO	2250	69	93	146	78	17	36	7
15	SIFTE CERROS (BREAD WHEAT)	MEXICO	2178	67	98	148	77	0	31	8
4	ARABIAN	MEXICO	2116	63	94	148	80	18	39	23
25	LOCAL CHECK		2005	83	94	144	88	0	36	5
8	SETTER	MEXICO ***	1922	63	99	149	88	0	37	8
17	IRA (2)	MEXICO	1922	66	90	145	75	18	35	8
19	BEAGLE(RESEL)	MEXICO	1916	65	91	149	98	0	46	5
5	JUPATECO F 73 (BREAD WHEAT)	MEXICO	1872	80	89	144	75	0	31	13
23	6TA 204-BCO 90	CANADA	1861	61	99	149	117	0	42	8
20	CINNAMON (TRITICALE)	MEXICO	1739	60	93	146	85	0	41	30
9	KOALA'S	MEXICO	1683	62	88	144	73	0	39	37
10	MEXICALI 75	MEXICO	1594	75	90	142	75	0	44	13
22	UC 8825	U.S.A.	1417	63	98	150	102	0	41	3

GRAND MEAN	2180.2	66.2	93.1	146.7	86.7	3.9	39.6	16.3
STANDARD ERROR OF GRAND MEAN	46.2	0.1	0.2	0.2	Y.6		0.2	1.0
COEFFICIENT OF VARIATION AS PC	18.4	1.9	1.8	1.3	5.7		4.1	55.2
LSD VARIETY MEANS 5 PC	657.1	2.1	2.7	3.2	8.1		2.6	14.8

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	SHTR %	1000 G.W.	FRST DMGE
	-0.11						
		-0.08	-0.29				
			0.12	-0.61	0.59		
				0.06	-0.32	0.49	0.60
					0.11	0.08	-0.00
						-0.06	-0.33
						0.08	-0.43
							0.21
							0.23
							0.44
							-0.26
							0.24
							-0.23
							-0.33
							-0.32
							-0.19
							-0.03
							0.18

