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RESULTS OF THE EIGHTH

ELITE DURUM YIELD TRIAL

(EDYT) 1977–78

CIMMYT

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GLOSSARY OF VARIABLE NAMES USED IN THE TABLES.
GLOSARIO DE NOMBRES VARIABLES USADOS EN LAS TABLAS.
GLOSSAIRE DES NOMS DES VARIABLES UTILISES DANS LES TABLEAUX.

TABLE ABBREVIATION	VARIABLE NAME	NOMBRE DE LA VARIABLE	NOM DE LA VARIABLE
ALT BLT	Alternaria blight (0–9 scale)	Tizón por Alternaria (escala 0–9)	Alternaria (echelle 0–9)
ANT DMGE	Ant damage percentage	Porcentaje de daño de hormigas	Dégâts dus aux fourmis en pourcentage
APHD DMGE	Aphid damage percentage	Porcentaje de daño de áfidos	Dégâts dus aux pucerons en pourcentage
ARMY WORM	Army worm percentage	Porcentaje de gusano cogollero	Chenille soldat en pourcentage
BACT STRP	Bacterial stripe (0–9 scale)	Rayado bacteriano (escala 0–9)	Rayee bacterienne (echelle 0–9)
BIRD DMGE	Bird damage percentage	Porcentaje de daño de pájaros	Dégâts dus aux oiseaux en pourcentage
BYDV	Barley yellow dwarf virus (0–9 scale)	Enanismo amarillo de la cebada (escala 0–9)	Virose jaune de l'orge (echelle 0–9)
COVD SMUT	Covered smut percentage	Porcentaje de carbón cubierto	Charbon couvert en pourcentage
EARS /M2	Ears per square meter	Espigas o mazorcas por metro cuadrado	Epis par metre2
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activitè de α amylase (eu secondes)
FERT °/o	Fertility percentage	Porcentaje de fertilidad	Fertilité en pourcentage
FLOW DAYS	Number days to flower	Días a floración	Nombre de jours a la floraisón
FRST DMGE	Frost damage percentage	Porcentaje de daño por heladas	Dégâts par la gelée en pourcentage
FUS WILT	Fusarium wilt percentage	Porcentaje de marchitez por Fusarium	Fusarium en pourcentage
GERM °/o	Germination percentage	Porcentaje de germinación	Germination en pourcentage
HAIL DMGE	Hail damage percentage	Porcentaje de daño por granizo	Dégâts dûs á 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 °/o	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 °/o	Moisture percentage	Porcentaje de humedad	Humiditè en pourcentage
NECK BRK	Neck break percentage	Porcentaje de rotura del cuello	Cassure du pédoncule en pourcentage
NET BLOT	Net blotch (0–9 scale)	Mancha reticular (escala 0–9)	Helminthosporium de l'orge (echelle 0–9)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (talles/metre2)
PLNT HT	Height (cm)	Altura (cm)	Hauteur (cm)
PLNT WT	Plant weight (grams)	Peso de la planta (gramos)	Poids de la planté (grames)
POWD °/o	Powdery mildew percentage	Porcentaje de mildiú polvoriento	Oidium en pourcentage
PROT °/o	Protein percentage	Porcentaje de proteína	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Piétin verse en pourcentage
SCAB °/o	Scab percentage	Porcentaje de roña	Fusarium de l'epi en pourcentage
SCLD °/o	Scald percentage	Porcentaje de escaldadura	Rhyncosporium en pourcentage
SDMT INDX	Sedimentation index (cc)	Indice de sedimentación (cc)	Indice de sédimentation (cc)
SEED TYPE	Seed type (L=large, M=medium, S=small)	Tipo de semilla (L=grande; m=mediano, s=pequeño)	Type de grain (L=large, M=moyen: S=petit)
SEPT NODO	Septoria nodorum (0–9 scale)	Septoria nodorum (escala 0–9)	Septoria nodorum (echelle 0–9)
SEPT SPP.	Septoria spp. (0–9 scale)	Septoria spp. (escala 0–9)	Septoria spp. (echelle 0–9)
SEPT TRIT	Septoria tritici (0–9 scale)	Septoria tritici (escala 0–9)	Septoria tritici (echelle 0–9)
SHTR °/o	Shattering percentage	Porcentaje de desgrane	Chute de grains en pourcentage
SMLS SMUT	Semi-loose smut percentage	Porcentaje de carbón semi-volador	Charbon semi-nu en pourcentage
SPOT BLOT	Spot blotch (0–9 scale)	Tizón de la hoja (escala 0–9)	Tache de la feuilles (echelle 0–9)
STEM RUST	Stem rust (Cobb scale)	Roya del tallo (escala de Cobb)	Rouille noire (echelle de Cobb)
STRP RT.H	Stripe rust (head) percentage	Porcentaje de roya lineal (espiga)	Rouille jaune sur l'epi en pourcentage
STRP RT.L	Stripe rust (leaf) (Cobb scale)	Roya lineal (hoja)(escala de Cobb)	Rouille jaune sur feuilles (echelle de Cobb)
TEST WT	Test weight (kg/hl)	Peso hectolítrico (kg/nl)	Poids specifique (kg/hl)
1000 G.W.	1000 grain weight (grams)	Peso de 1000 granos (gramos)	Poids de 1000 grains (grames)
YELL BERR	Yellow berry percentage	Porcentaje de panza blanca	Mitadinage en pourcentage
YIELD KG/HA	Yield kg/ha	Rendimiento kg/ha	Rendement kg/ha

RESULTS OF THE EIGHTH ELITE DURUM YIELD TRIAL (EDYT)

1977 – 1978

INTRODUCTION

The 8th EDYT trial was planted in 28 locations throughout the world in 1977–1978. This nursery was assembled with 25 entries, which included 20 elite durum lines, selected from high yielding materials resulting from yield trials planted under very excellent agronomic practices in the Yaqui Valley, State of Sonora, in northwest Mexico. The trial also included two durum wheat checks, one bread wheat check, one triticale check and one local check cultivar selected in each location where the 8th EDYT was planted.

Figures 1–3 indicate the locations, geographic regions and the time and length of growing seasons, from which data were received. Table A briefly describes the entries included in the 8th EDYT. From the 28 sets distributed, 23 cooperators from 17 countries returned their results and observations. These receivals amounted to an 82 per cent return, which is a big improvement over the 30 per cent data return for the three previous years.

RESULTS AND DISCUSSION

1. YIELD

Yield data for individual locations are presented in tables 1–23. The highest yielding location was Tunis, Tunisia with 7665 kg/ha, and where the durum line Geier "S"–USA.0676 x Jo"S" (Var.17) was at the top with 8368 kg/ha, (table 8). The second yielding location was Szeged, Hungary with 6862 kg/ha, with the triticale Beagle (Var.22) yielding at the top with 9444 kg/ha, (table 13). The third yield ranking location was R.D.SDE-GAT, Israel with 6598 kg/ha, where the durum line Geier"S"–USA.0676 x Jo"S" (Var.17) was at the top with 7655 kg/ha, (table 16).

The lowest yielding individual location was Ramtha, Jordan with 697 kg/ha, and a range from 544–886 kg/ha. The second lowest was Cape, South Africa with 1005 kg/ha and a range from 441–2598 kg/ha. Finally, the third lowest yielding individual location was Santiago, Chile with 1421 kg/ha, and a range of 724–2932 kg/ha, (tables 17, 7, 23 respectively).

Yield results by geographic regions are given in tables 24–32, which show Region IV including only Szeged, Hungary yielding first with 6862 kg/ha, and a range of 5194–9444 kg/ha, for the entries local check (Var.25) and Beagle triticale check (Var.22), respectively. Region VII, including locations from Mexico was second with 5236 kg/ha, and a range of 5852–6325 kg/ha, for the durum lines Mexi"S"–Gta"S" (Var.10) and Mexi"S" x Ch67–Jo"S" (Var.20), respectively. Third place was Region I including countries of North Africa with 5067 kg/ha and range of 4373–5708 kg/ha, for the durum lines Mexi"S"–Magh"S" (Var.18) and Geier "S"–USA.0676 x Jo"S" (Var.17), respectively.

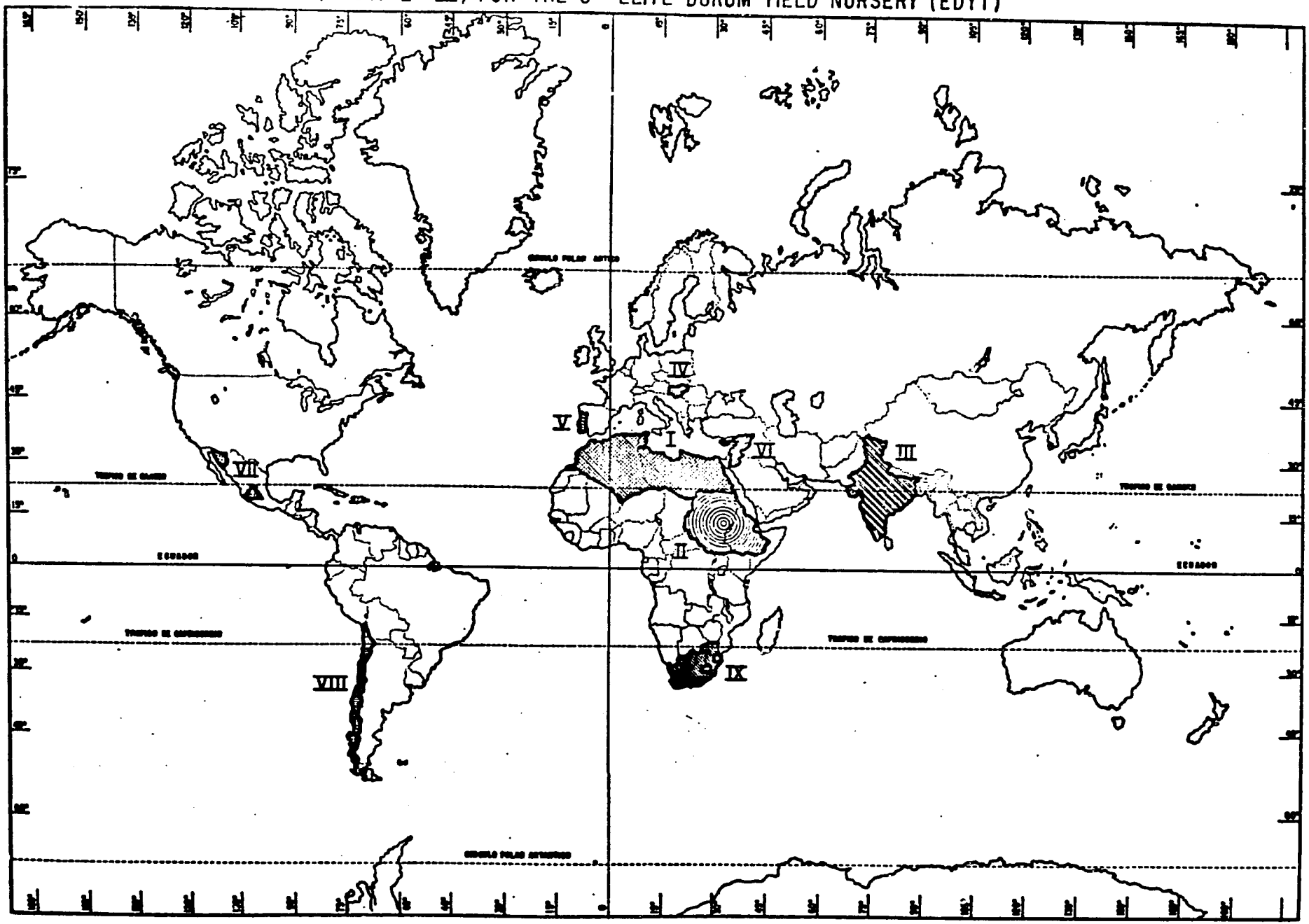
The yield means over all locations are presented in table 33, where 3559.5 kg/ha is only slightly better (+ 1.2 per cent) than that of the 7th EDYT and five per cent lower than the average of the previous five years. The range was from 3313–3903 kg/ha for the durum lines, Mca"S" x Jo"S"–AA"S"/Pg"S"–Fg"S" (Var.6) and Geier "S"–USA.0676 x Jo"S" (Var.17), respectively. It is interesting to note that durum line Geier "S"–USA.0676 x Jo "S" (Var.17) yielded first in three of the five top yielding individual locations, (tables 8, 16, 22).

Low yielding locations like Ramtha, Jordan (table 17), reported less than normal average rainfall and bird and weed problems. Also Santiago, Chile (table 23) reported some frost damage, a severe attack of BYDV and *Fusarium* and heavy aphid problems. These various constraints might possibly have caused very low yields at those two locations, whereas the low yields reported at Cape, South Africa have no apparent explanation.

2. DISEASE RESISTANCE

Regarding diseases, it might be concluded from the mean over all locations, that stripe rust and stem rust susceptibility is maintained very low, with coefficients of infection lower that those of the 7th EDYT by (–1.6) and (–7.2) respectively. Also, these two diseases have diminished by (–55) and (–11.1) respectively, in comparison with the average of the previous five EDYT trials. Leaf rust has diminished quite considerably (–3.0) compared with last year's EDYT and (–6.8) with the average for the previous five years. These materials still show high levels of susceptibility at certain locations such as Merchouch, Morocco 27.7, Andhra Pradesh, India 16.6 and Karnataka, India 28.8 (tables 5, 9, 10).

FIGURE 1. REGIONAL SUMMARY (GROUP I - IX) FOR THE 8th ELITE DURUM YIELD NURSERY (EDYT)



The materials included in the 8th EDYT generally, show high susceptibility to *Septoria tritici*, scab (*Fusarium spp*), barley yellow dwarf virus (BYDV) and *Helminthosporium sativum*, and although these diseases are reported only from one or very few locations, the data show very little or no progress on resistance during the last few years. Table 33 gives a mean over all locations of 40.2 for *Septoria tritici* which is (+32.6) higher than that for the 7th EDYT and only (−2.8) lower than the previous five year's average. Scab, BYDV and *Helminthosporium sativum* have been scarcely reported during the last six years and very few entries show acceptable levels of resistance.

3. AGRONOMIC TYPE

Summaries for all locations presented in table 33, show that there have not been appreciable changes in the numbers of days to flowering (−1.0) and days to maturity (−0.4) in comparison with the 9th EDYT. These two characteristics however have diminished very much (−23.4) and (−36.4) in comparison with the average of the last five years. Plant height has not changed during the last six years, whereas susceptibility to lodging has increased (+12.7) in relation to last year's results and has diminished (−5.2) compared with the average of the previous five EDYT trials. These data indicate that improvement for this trait needs to be made on new materials developed at CIMMYT.

4. GRAIN QUALITY

Test weight and one thousand kernel weight are the only two factors of the many traits considered for quality on durum wheat. The present results resemble very much those observed during the last five EDYT trials, with only very slight variations from year to year. They have remained near 75 kg/hl for test weight and 41 g for one thousand kernel weight. The program at CIMMYT will soon provide information on protein and pigment content and on other items of quality.

CURRENT DEVELOPMENTS

New durum materials being developed at CIMMYT are incorporating strong stiff straw in various plant heights, from lines like Shearwaters"S", Tern"S", Tc60–Cit"S" x Rabi"S" and some others.

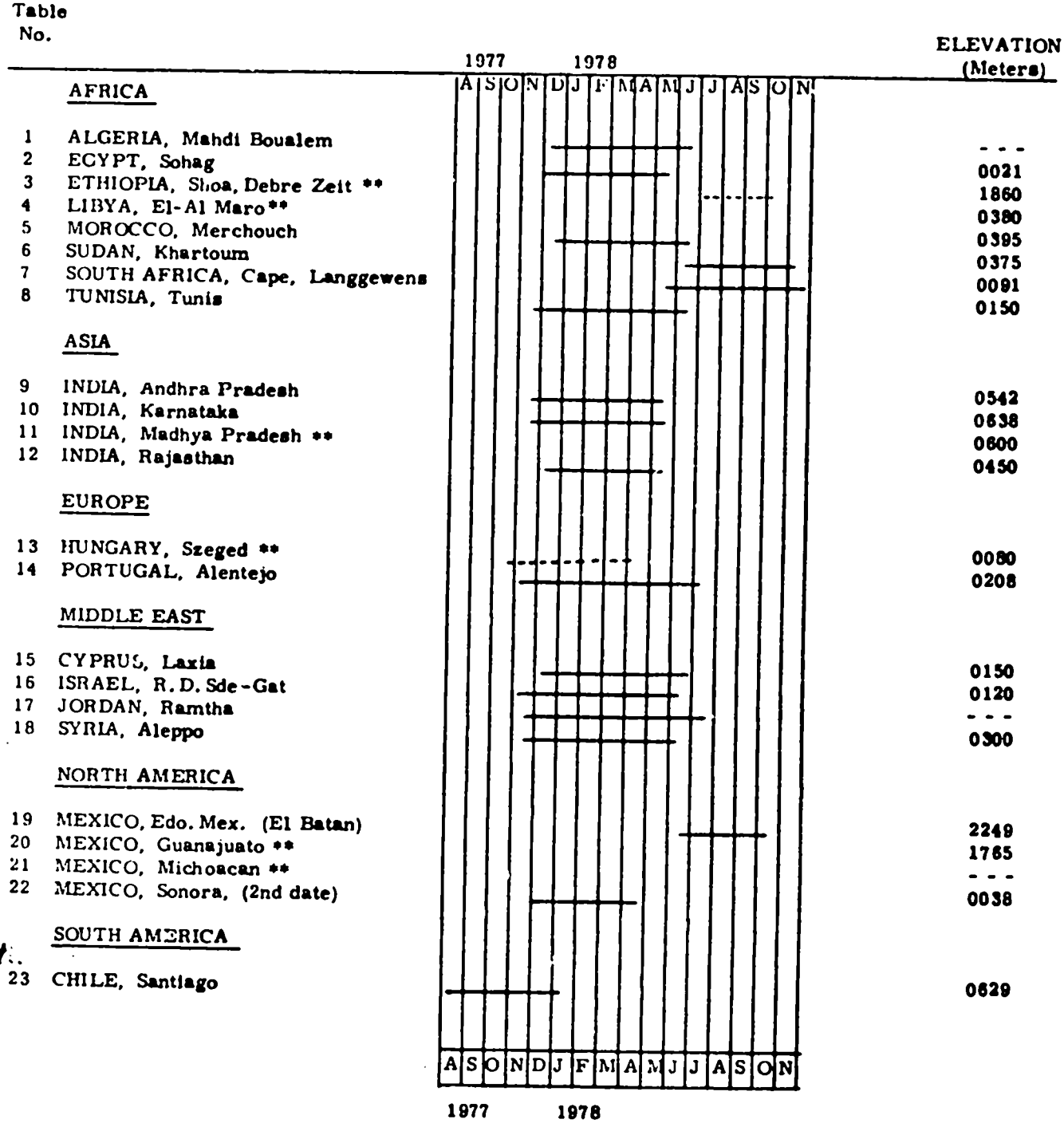
Regarding the most frequently destructive diseases of durum wheat, such as *Septoria spp, Fusarium spp, BYDV and Helminthosporium sativum*, there are very few lines and varieties showing resistance or satisfactory levels of resistance. Therefore all these materials are being used in new crosses in order to improve resistance to the diseases mentioned above. Some tall cultivars like Ward, Taganrock B.B., Preto Amarelejo, Roussia BD1419, Kyperounda and several others, and the semidwarfs like Quilafen, Cando, Snipe"S", exhibit acceptable levels of resistance to *Septoria tritici*. Similarly there are some lines and varieties showing acceptable resistance to mildew, like Gediz"S", Dommel"S", Quilafen, Chapala 67 and others. Also, there are reports indicating resistance to *Helminthosporium sativum* in Edmore, Teal"S", Snipe"S" and to BYDV in ELS 6404. 61.4 CI–14593, ELS 6404.160.5 CI–14908 and Yellowlegs"S".

Good quality factors are also being considered in new crosses of durum wheats at CIMMYT, incorporating materials with 13.5 per cent and over of protein, five or more ppm of pigment content and a five or a better score for color of the gluten.

DATA PROCESSING IN ANALYSIS OF VARIANCE

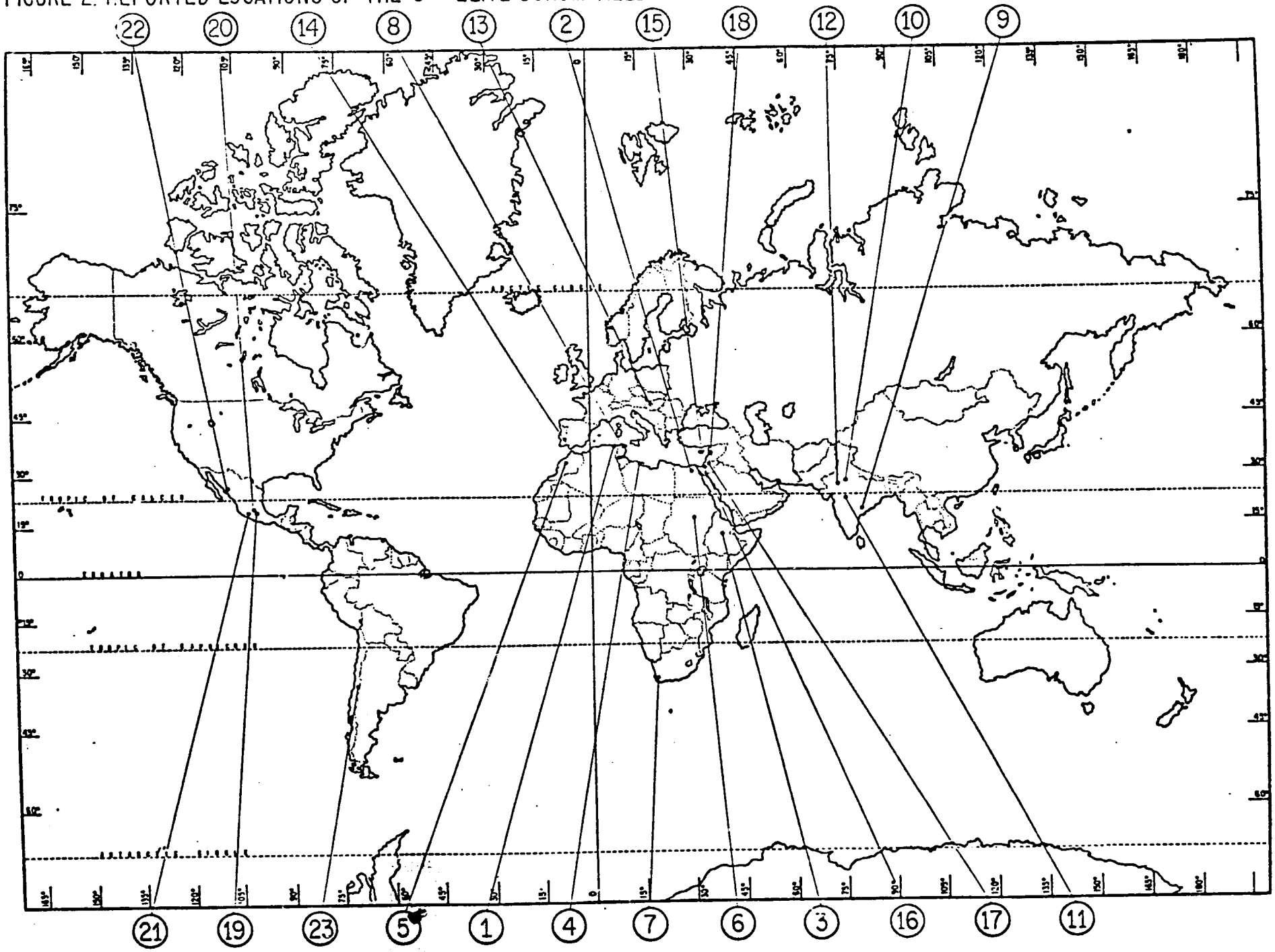
The tables and analyses in this report have been produced by a new set of computer programs called NAP, which were developed by the Information Sciences/Genetic Resources (IS/GR) Program, University of Colorado, Boulder, Colorado, U.S.A. and which take the place of the old RAPID programs.

Figure 3. Growing season and elevation of locations reported in the 8th Elite Durum Yield Trial 1977-78.



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

FIGURE 2. REPORTED LOCATIONS OF THE 8th ELITE DURUM YIELD TRIAL (EDYT) 1977-78



8TH EDYT TABLE 1 AFRICA ALGERIA MAHDI BOUALEM

QUED SMAR
CEREAL PROJECT

LATITUDE		DATE PLANTED	12/ 6/77	NITROGEN	APPLIED
LONGITUDE		DATE HARVESTED	6/17/78	PHOSPHORUS	APPLIED
ELEVATION	M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

SOWING DATE AND SOIL MOISTURE CONDITION AT SOWING NOT REPORTED. 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	FLOW DAYS	PLNT HT	SEPT TRIT
4	MEXI"S" -GTA"S"	MEXICO	7308	84	88	33
7	21563 - AA"S" X FG"S"	MEXICO	6974	84	85	33
20	MEXI"S" X CHAP - 21563	MEXICO	6924	81	85	33
3	MEXI"S" X CHAP - 21563	MEXICO	6891	82	83	22
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	6874	82	90	33
1	21563-AA"S" X FG"S"	MEXICO	6824	86	85	33
15	ERPEL"S" - RUSO	MEXICO	6758	90	83	22
2	GTA"S" X 21563 - AA"S"	MEXICO	6608	92	90	33
21	COCORIT 71	MEXICO	6549	80	85	33
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	6391	83	78	44
5	MEXI"S" - FG"S"	MEXICO	6366	81	85	33
11	MEXI"S" - FG"S"	MEXICO ***	6191	83	85	33
22	BEAGLE(TRITICALE)	MEXICO	6183	78	113	22
12	MEXI"S" X CHAP - 21563	MEXICO	6141	82	88	56
8	S.0179 - S.0179 X DURUM(6)	MEXICO	6074	82	73	56
10	MEXI"S" - GTA"S"	MEXICO	6016	81	88	44
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	5991	89	85	22
18	MEXI"S" - MAGH"S"	MEXICO	5974	82	83	44
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	5966	91	85	33
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	5908	80	78	44
19	TC.60 - CIT"S" X RABI"S"	MEXICO	5599	81	78	56
9	GTA"S" X 21563 - AA"S"	MEXICO	5599	89	90	33
23	MEXICALI 75	MEXICO	5349	77	88	44
24	JUPATECO 73 (B.W.)	MEXICO	4375	76	90	67
25	LOCAL CHECK		-	117	120	44
	GRAND MEAN		6243.1	84.5	87.0	30.0
	STANDARD ERROR OF GRAND MEAN		60.8			
	COEFFICIENT OF VARIATION AS PC		9.5			
	LSD VARIETY MEANS 5 PC		840.1			

CORRELATIONS

YIELD	KG/HA			
FLOW	DAYS	0.18		
PLNT	HT	-0.03	0.53	
SEPT	TRIT	-0.64	-0.16	-0.17

Table A. Agronomic and disease reaction data of 8th Elite Durum Yield Trial. 1977-1978.

Entry No.	Variety or Cross and Pedigree	Days to flower	Height cm.	Leaf Rust	Origin
1	21563-AA"S" x Fg"S" CM-9799-126M-1M-5Y-0Y	89	90	TR	Mexico
2	Gta"S" x 21563-AA"S" CM-10143-6M-3Y-1M-2Y-0Y	91	95	TMR	Mexico
3	Mexi"S" x Ch67-21563 CD-3909-12Y-0M	83	90	TR	Mexico
4	Mexi"S"-Gta"S" CD-1896-1Y-3Y	87	85	TR	Mexico
5	Mexi"S"-Fg"S" CD-1895-12Y-0Y	85	90	TR	Mexico
6	Mca"S" x 21563-AA"S"/Pg"S"-Fg"S" CM-14646-C-1Y-1M-1Y-0Y	91	90	TR	Mexico
7	21563-AA"S" x Fg"S" CM-9799-126M-1M-4Y-0Y	90	85	TR	Mexico
8	S.0179-S.0179 x Durum6 HRL-862-2B-1Y-1B	87	80	TR	Mexico
9	Gta"S" x 21563-AA"S" CM-10143-19M-2Y-1M-1Y-0Y 1PTZ	87	90	5MS	Mexico
10	Mexi"S"-Gta"S" CD-1896-12Y-0Y-1E	79	70	TMS	Mexico
11	Mexi"S"-Fg"S" CD-1895-12Y-0Y-2E	84	90	TR	Mexico
12	Mexi"S" x Ch67-21563 CD-1894-3Y-0Y-1E	82	85	TR	Mexico
13	Pg"S"-Marte"S" x Gta"S" CD-10521-I-3M-1Y-0M	87	85	TMR	Mexico
14	Fg"S"-Palestinien 20C.606 x Mexi"S"/Rabi"S" CD-10438-4M-1Y-0M	80	80	TR	Mexico
15	Erpel"S"-Ruso CD-10437-7M-1Y-0M	89	80	TR	Mexico
16	Pg"S"-Marte"S" x Gta"S" CD-10521-I-4M-3Y-0M	84	75	TR	Mexico
17	Geier"S"-USA 0676 x Jo"S"-Cr"S" CD-10569-C-10M-1Y-0M	81	80	TR	Mexico
18	Mexi"S"-Magh"S" CD-3879-29Y-4M	87	80	TR	Mexico
19	Tc60-Cit"S" x Rabi"S" CD-4340-A-3Y-1M-0M	87	85	TMR	Mexico
20	Mexi"S"-Ch67-21563 CD-1894-3Y-1Y-5M-2Y-0M	82	95	TMR	Mexico
21	Cocorit 71	82	90	TMR	Mexico
22	Beagle (triticale)	83	120	5MS-MR	Mexico
23	Mexicali 75	77	95	5R	Mexico
24	Jupateco 73 (bread wheat)	82	100	90S	Mexico
25	Local check	77	95	5R	Mexico

8TH EDYT TABLE 3 AFRICA ETHIOPIA SHOA

DEBRE ZEI
T.TESEM
LATITUDE 08 55'N
LONGITUDE 039 58'E
ELEVATION 1863 M.ABOVE S.L.

DATE PLANTED 7/ 5/78
DATE HARVESTED --/--/--
AMOUNT OF MOISTURE 530 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK 61-130XLDS

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	LEAF RUST	STEM RUST	PLNT HT	HELM
24	JUPATECO 73 (B.W.)	MEXICO	4096	5R	0	80	22
22	BEAGLE(TRITICALE)	MEXICO ***	3294	0	0	117	22
1	21563-AA"S" X FG"S"	MEXICO	3210	25MS	0	72	22
2	GTA"S" X 21563 - AA"S"	MEXICO	3190	35S	5S	70	33
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	3034	----	---	62	44
7	21563 - AA"S" X FG"S"	MEXICO	3004	15MS	TMS	75	22
9	GTA"S" X 21563 - AA"S"	MEXICO	2902	15MS	5MR	72	33
18	MEXI"S" - MAGH"S"	MEXICO	2742	----	---	66	44
15	ERPEL"S" - RUSO	MEXICO	2686	----	---	69	33
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	2555	25MR	15S	66	44
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	2520	----	---	66	44
20	MEXI"S" X CHAP - 21563	MEXICO	2474	----	5MS	71	56
10	MEXI"S" - GTA"S"	MEXICO	2447	----	---	69	67
5	MEXI"S" - FG"S"	MEXICO	2309	0	2MS	65	56
4	MEXI"S" -GTA"S"	MEXICO	2276	0	5S	61	44
11	MEXI"S" - FG"S"	MEXICO	2167	----	---	70	67
25	LOCAL CHECK		2104	----	---	80	44
0	S.0179 - S.0179 X DURUM(6)	MEXICO	2084	10MR	TS	69	44
23	MEXICALI 75	MEXICO	2072	----	---	65	56
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	2014	35MS	TMS	71	33
21	COCORIT 71	MEXICO	1837	----	---	74	67
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	1812	----	---	52	67
12	MEXI"S" X CHAP - 21563	MEXICO	1804	----	---	71	56
19	TC.60 - CIT"S" X RABI"S"	MEXICO	1801	----	---	66	70
3	MEXI"S" X CHAP - 21563	MEXICO	886	0	0	75	67
	GRAND MEAN		2452.9	10.2	2.7	71.1	46.6
	STANDARD ERROR OF GRAND MEAN		35.1			0.4	
	COEFFICIENT OF VARIATION AS PC		14.3			5.9	
	LSD VARIETY MEANS 5 PC		494.3			5.9	

CORRELATIONS

	YIELD KG/HA			
LEAF RUST	0.20			
STEM RUST	-0.05	0.12		
PLNT HT	0.33	-0.28	-0.45	
HELM	-0.77	-0.31	0.19	-0.43

8TH EDYT TABLE 2 AFRICA EGYPT SOHAG

SHANDAWEEL

LATITUDE 026 36'N
LONGITUDE 031 40'E
ELEVATION 0021 M.ABOVE S.L.

DATE PLANTED 12/ 1/77
DATE HARVESTED 5/16/78
AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD. WEATHER NORMAL.
NEGLIGIBLE DISEASE DEVELOPMENT. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: SAKHA 61

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	1000 G.W.
23	MEXICALI 75	MEXICO	6931	81	98	139	115	-	55
19	TC.60 - CIT"S" X RABI"S"	MEXICO	6794	80	108	145	105	-	53
22	BEAGLE(TRITICALE)	MEXICO	6756	71	101	148	150	-	48
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	6719	80	105	143	100	-	52
7	21563 - AA"S" X FG"S"	MEXICO	6656	81	99	139	100	-	54
9	GTA"S" X 21563 - AA"S"	MEXICO	6550	82	107	142	110	-	51
10	MEXI"S" - GTA"S"	MEXICO	6338	78	102	146	100	-	49
21	COCORIT 71	MEXICO	6175	79	109	147	110	-	52
20	MEXI"S" X CHAP - 21563	MEXICO	6144	80	104	144	105	-	52
25	LOCAL CHECK		6063	81	102	142	120	-	43
11	MEXI"S" - FG"S"	MEXICO	6044	80	106	145	110	-	52
15	ERPEL"S" - RUSO	MEXICO	5956	81	112	149	100	-	55
24	JUPATECO 73 (B.W.)	MEXICO	5913	82	107	146	115	-	38
8	S.0179 - S.0179 X DURUM(6)	MEXICO	5750	79	100	143	95	-	45
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	5631	80	105	145	100	-	39
3	MEXI"S" X CHAP - 21563	MEXICO	5500	80	107	147	105	50	40
12	MEXI"S" X CHAP - 21563	MEXICO	5519	78	103	147	105	-	55
1	21563-AA"S" X FG"S"	MEXICO	5375	83	105	140	100	-	50
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	4663	78	108	148	90	-	43
2	GTA"S" X 21563 - AA"S"	MEXICO	4544	83	109	150	100	60	48
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	4263	82	105	145	85	70	35
4	MEXI"S" -GTA"S"	MEXICO	4156	79	110	147	85	100	41
18	MEXI"S" - MAGH"S"	MEXICO	3881	79	109	146	100	-	54
5	MEXI"S" - FG"S"	MEXICO	3863	80	98	145	95	80	37
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	3613	83	114	150	105	-	35
		GRAND MEAN	5595.3	80.0	105.3	145.1	104.2	72.0	46.9

STANDARD ERROR OF GRAND MEAN 192.0
COEFFICIENT OF VARIATION AS PC 34.3
LSD VARIETY MEANS 5 PC 2706.6

CORRELATIONS

YIELD	KG/HA						
TEST	WT	-0.23					
FLOW	DAYS	-0.39	0.28				
MAT	DAYS	-0.48	-0.23	0.65			
PLNT	HT	0.53	-0.48	-0.22	-0.02		
LODG	%	-0.49	-0.36	-0.02	-0.20	-0.55	
1000	G.W.	0.59	-0.16	-0.12	-0.30	0.22	-0.16

LATITUDE 033 33'N
LONGITUDE 006 24'W
ELEVATION 0395 M.ABOVE S.L.

DATE PLANTED 12/19/78
DATE HARVESTED 6/16/78
AMOUNT OF MOISTURE 515 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
RAINFALL ABOVE NORMAL EX ELLENT WEATHER FOR GROWING WHEAT.
MECHANICAL CONTROL OF WEEDS. HAND WEEDING.
LOCAL CHECK: HADJ MOULINE.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.
24	JUPATECO 73 (B.W.)	MEXICO	4893	82	86	60S-MS	106	3	41
19	TC.60 - CIT"S" X RABI"S"	MEXICO	4410	79	98	20R-MR	83	0	46
1	21563-AA"S" X FG"S"	MEXICO	4290	80	101	40R-MR	91	15	48
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	4165	80	97	40X	92	20	48
5	MEXI"S" - FG"S"	MEXICO	4142	71	96	60R-MR	94	40	41
14	FG"S" - PALASTINIEN 20C.606...	MEXICO ***	3837	76	97	60R-MR	91	45	46
3	MEXI"S" X CHAP - 21563	MEXICO	3787	-	99	40R-MR	92	43	53
11	MEXI"S" - FG"S"	MEXICO	3652	74	101	40MS-MR	94	53	43
20	MEXI"S" X CHAP - 21563	MEXICO	3541	79	99	40R-MR	92	23	47
7	21563 - AA"S" X FG"S"	MEXICO	3517	77	99	30R-MR	90	33	52
23	MEXICALI 75	MEXICO	3469	77	88	80S-MS	98	28	40
15	ERPEL"S" - RUSO	MEXICO	3367	78	107	60S-MS	86	25	45
8	S.0179 - S.0179 X DURUM(6)	MEXICO	3315	77	99	50R-MR	77	7	40
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	3310	75	103	30R-MR	93	13	46
21	COCORIT 71	MEXICO	3305	69	95	60R-MR	90	33	48
25	LOCAL CHECK		3210	79	101	30R-MR	82	23	36
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	3098	71	105	40R-MR	90	58	35
9	GTA"S" X 21563 - AA"S"	MEXICO	3087	80	107	30R-MR	96	18	49
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	3063	72	100	40MR-MS	75	0	39
4	MEXI"S" -GTA"S"	MEXICO	2965	72	104	60R-MR	93	40	48
2	GTA"S" X 21563 - AA"S"	MEXICO	2602	-	108	40R-MR	97	28	49
12	MEXI"S" X CHAP - 21563	MEXICO	2566	78	101	60MS-MR	89	30	49
10	MEXI"S" - GTA"S"	MEXICO	2561	-	102	80S-MS	88	25	45
18	MEXI"S" - MAGH"S"	MEXICO	2228	-	102	80S-MS	84	20	48
22	BEAGLE(TRITICALE)	MEXICO	1941	-	-	80S-MS	126	83	33
	GRAND MEAN		3372.9	76.8	99.8	27.7	91.4	28.2	44.9
	STANDARD ERROR OF GRAND MEAN		59.5				0.4		0.3
	COEFFICIENT OF VARIATION AS PC		17.6				4.8		7.3
	LSD VARIETY MEANS 5 PC		838.8				6.2		4.6

CORRELATIONS

YIELD	KG/HA						
TEST	WT	0.34					
FLOW	DAYS	-0.56	-0.16				
LEAF	RUST	-0.37	0.13	-0.28			
PLNT	HT	-0.11	0.13	-0.21	0.36		
LODG	%	-0.39	-0.47	0.15	0.16	0.59	
1000	G.W.	0.15	0.20	0.04	-0.16	-0.17	-0.25

EL-AL-MARO A.R.S.
A. GUETIN

LATITUDE	30 30'N	DATE PLANTED	--/--/--	NITROGEN	--
LONGITUDE	20 52'E	DATE HARVESTED	--/--/--	PHOSPHORUS	--
ELEVATION	380 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL.
LOCAL CHECK: S-9

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
2	GTA"S" X 21563 - AA"S"	MEXICO	3249	133	90
9	GTA"S" X 21563 - AA"S"	MEXICO	2996	133	100
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	2996	133	90
15	ERPEL"S" - RUSO	MEXICO	2930	141	85
4	MEXI"S" -GTA"S"	MEXICO	2926	131	85
7	21563 - AA"S" X FG"S"	MEXICO	2822	127	90
1	21563-AA"S" X FG"S"	MEXICO	2777	130	85
20	MEXI"S" X CHAP - 21563	MEXICO	2753	131	90
23	MEXICALI 75	MEXICO	2607	122	85
3	MEXI"S" X CHAP - 21563	MEXICO	2603	123	80
5	MEXI"S" - FG"S"	MEXICO	2541	127	90
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	2540	133	80
10	MEXI"S" - GTA"S"	MEXICO	2531	130	85
8	S.0179 - S.0179 X DURUM(6)	MEXICO	2465	122	80
25	LOCAL CHECK	***	2430	142	90
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	2413	130	80
19	TC.60 - CIT"S" X RABI"S"	MEXICO	2402	130	80
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	2354	138	85
18	MEXI"S" - MAGH"S"	MEXICO	2326	130	80
11	MEXI"S" - FG"S"	MEXICO	2274	129	90
22	BEAGLE(TRITICALE)	MEXICO	2222	122	105
21	COCORIT 71	MEXICO	2152	122	90
12	MEXI"S" X CHAP - 21563	MEXICO	2107	129	85
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	1899	131	80
24	JUPATECO 73 (B.W.)	MEXICO	1770	117	80
	GRAND MEAN		2523.3	129.4	86.4
	STANDARD ERROR OF GRAND MEAN		47.7		
	COEFFICIENT OF VARIATION AS PC		18.9		
	LSD VARIETY MEANS 5 PC		672.2		

CORRELATIONS

YIELD KG/HA		
FLOW DAYS	0.42	
PLNT HT	0.28	0.05

8TH EDYT TABLE 7 AFRICA SOUTH AFRICA CAPE

LANGGEWENS
J.A. TRUTER ET AL

LATITUDE	33 30'S	DATE PLANTED	5/16/78	NITROGEN	APPLIED
LONGITUDE	18 40'E	DATE HARVESTED	11/28/78	PHOSPHORUS	APPLIED
ELEVATION	91 M.ABOVE S.L.	AMOUNT OF MOISTURE	204 MM	POTASSIUM	APPLIED

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT
22	BEAGLE(TRITICALE)	MEXICO	2598	65
7	21563 - AA*S* X FG*S*	MEXICO ***	1565	77
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	1512	75
24	JUPATECO 73 (B.W.)	MEXICO	1443	77
9	GTA*S* X 21563 - AA*S*	MEXICO	1399	75
1	21563-AA*S* X FG*S*	MEXICO	1299	77
2	GTA*S* X 21563 - AA*S*	MEXICO	1263	76
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	1043	68
15	ERPEL*S* - RUSO	MEXICO	1043	73
4	MEXI*S* -GTA*S*	MEXICO	1024	71
18	MEXI*S* - MAGH*S*	MEXICO	955	73
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	947	68
11	MEXI*S* - FG*S*	MEXICO	916	68
17	GEIER*S* - USA 8676 X JO*S*...	MEXICO	876	68
3	MEXI*S* X CHAP - 21563	MEXICO	863	74
20	MEXI*S* X CHAP - 21563	MEXICO	860	73
14	FG*S* - PALASTINIEN 20C.606...	MEXICO	765	70
12	MEXI*S* X CHAP - 21563	MEXICO	694	72
25	LOCAL CHECK		686	72
10	MEXI*S* - GTA*S*	MEXICO	659	68
5	MEXI*S* - PG*S*	MEXICO	615	69
21	COCORIT 71	MEXICO	590	69
8	S.8179 - S.8179 X DURUM(6)	MEXICO	554	67
23	MEXICALI 75	MEXICO	512	71
19	TC.60 - CIT*S* X RABI*S*	MEXICO	441	69

GRAND MEAN	1004.9	71.4
STANDARD ERROR OF GRAND MEAN	22.7	
COEFFICIENT OF VARIATION AS PC	22.6	
LSD VARIETY MEANS 5 PC	320.1	

CORRELATIONS

	YIELD KG/HA
TEST WT	0.21

8TH EDYT TABLE 6 AFRICA SUDAN KHARTOUM

SHAMBAT
A.G.IMAM

LATITUDE	015 37'N	DATE PLANTED	08/ 11/77	NITROGEN	APPLIED
LONGITUDE	032 32'E	DATE HARVESTED	11/11/77	PHOSPHORUS	--
ELEVATION	0375 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NEGLIGIBLE DISEASE DEVELOPMENT.
LIGHT ATTACK OF APHIDS.
LOCAL CHECK: MEXICANI.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
24	JUPATECO 73 (B.W.)	MEXICO	3796	52	97	86	33
25	LOCAL CHECK		3733	58	102	76	29
1	21563-AA"S" X PG"S"	MEXICO	3454	64	104	82	34
12	MEXI"S" X CHAP - 21563	MEXICO	3337	60	106	79	41
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	3312	61	106	80	38
8	S.0179 - S.0179 X DURUM(6)	MEXICO	3304	69	107	77	32
3	MEXI"S" X CHAP - 21563	MEXICO	3296	59	103	84	43
22	BEAGLE(TRITICALE)	MEXICO	3271	58	109	106	36
9	GTA"S" X 21563 - AA"S"	MEXICO	3237	73	105	82	30
19	TC.60 - CIT"S" X RABI"S"	MEXICO	3229	53	99	71	40
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	3208	55	102	73	33
14	PG"S" - PALASTINIEN 20C.606...	MEXICO	3208	50	103	75	37
5	MEXI"S" - PG"S"	MEXICO	3192	50	108	74	38
11	MEXI"S" - PG"S"	MEXICO	3071	56	108	78	35
7	21563 - AA"S" X PG"S"	MEXICO	3037	60	105	83	34
2	GTA"S" X 21563 - AA"S"	MEXICO	2975	69	103	83	35
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	2971	50	98	60	35
20	MEXI"S" X CHAP - 21563	MEXICO	2954	57	103	78	41
18	MEXI"S" - MAGH"S"	MEXICO	2921	51	100	66	39
21	COCORIT 71	MEXICO ***	2783	51	98	75	40
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	2754	74	109	79	33
10	MEXI"S" - GTA"S"	MEXICO	2692	53	104	70	37
15	ERPEL"S" - RUSO	MEXICO	2646	66	107	74	35
23	MEXICALI 75	MEXICO	2207	48	97	69	43
4	MEXI"S" -GTA"S"	MEXICO	2121	54	102	62	35
	GRAND MEAN		3071.6	58.2	103.4	77.0	36.2
	STANDARD ERROR OF GRAND MEAN		54.0			0.4	0.2
	COEFFICIENT OF VARIATION AS PC		17.0			5.2	6.6
	LSD VARIETY MEANS 5 PC		772.0			5.7	3.4

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	0.13			
MAT	DAYS	0.09	0.59		
PLNT	HT	0.51	0.42	0.46	
1000	G.W.	-0.32	-0.50	-0.25	-0.13

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 GOOD. NORMAL WEATHER, EXCEPT FOR A DRY PERIOD FROM DECEMBER UNTIL END OF JANUARY. SLIGHT INCIDENCE OF STRIPE RUST AND SEPTORIA. SOME BIRD DAMAGE. LOCAL CHECK: AMAL 72.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	8368	94	85
20	MEXI"S" X CHAP - 21563	MEXICO	8226	88	95
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	8134	99	85
4	MEXI"S" -GTA"S"	MEXICO	7992	95	90
15	ERPEL"S" - RUSO	MEXICO	7971	99	90
9	GTA"S" X 21563 - AA"S"	MEXICO	7948	97	90
1	21563-AA"S" X PG"S"	MEXICO	7938	90	80
10	MEXI"S" - GTA"S"	MEXICO	7923	91	90
14	PG"S" - PALASTINIEN 20C.606...	MEXICO	7918	87	85
5	MEXI"S" - PG"S"	MEXICO	7901	87	85
11	MEXI"S" - PG"S"	MEXICO	7865	91	90
7	21563 - AA"S" X PG"S"	MEXICO	7804	91	85
22	BEAGLE(TRITICALE)	MEXICO	7744	86	119
23	MEXICALI 75	MEXICO	7744	83	90
3	MEXI"S" X CHAP - 21563	MEXICO	7712	88	90
12	MEXI"S" X CHAP - 21563	MEXICO	7708	90	90
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	7659	94	75
2	GTA"S" X 21563 - AA"S"	MEXICO	7527	94	95
18	MEXI"S" - MAGH"S"	MEXICO	7454	91	85
21	COCORIT 71	MEXICO ***	7407	87	90
8	S.0179 - S.0179 X DURUM(6)	MEXICO	7197	88	80
19	TC.60 - CIT"S" X RABI"S"	MEXICO	6955	90	80
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	6869	97	85
24	JUPATECO 73 (B.W.)	MEXICO	6867	79	90
25	LOCAL CHECK		6796	79	70
		GRAND MEAN	7665.1	90.2	87.2
		STANDARD ERROR OF GRAND MEAN	53.1		
		COEFFICIENT OF VARIATION AS PC	6.9		
		LSD VARIETY MEANS 5 PC	748.1		

CORRELATIONS

	YIELD KG/HA	FLOW DAYS
FLOW DAYS	0.43	
PLNT HT	0.34	0.05

RAJENDRANAGAR
A.R.I.
LATITUDE 17 19'N.
LONGITUDE 78 38'E
ELEVATION 542 M.ABOVE S.L.

DATE PLANTED 11/20/77
DATE HARVESTED 3/20/78
AMOUNT OF MOISTURE 286 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. HAND WEEDING.
BIRD DAMAGE NOT REPORTED. LOCAL CHECK. SONALIKA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	LODG %	1000 G.W.
25	LOCAL CHECK		3147	71	107	20MS-40S	93	21	43
24	JUPATECO 73 (B.W.)	MEXICO	3122	74	109	TS/MS	88	0	35
22	BEAGLE(TRITICALE)	MEXICO	3004	90	120	0	115	0	39
1	21563-AA*S* X FG*S*	MEXICO ***	2739	77	110	TMS	71	52	39
21	COCORIT 71	MEXICO	2481	73	105	10MS-5S	78	41	38
19	TC.60 - CIT*S* X RABI*S*	MEXICO	2474	76	109	TS/MS	73	0	38
7	21563 - AA*S* X FG*S*	MEXICO	2434	83	117	TS	80	11	38
20	MEXI*S* X CHAP - 21563	MEXICO	2432	73	106	10MS	75	33	40
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	2360	77	110	10MS	81	0	45
8	S.0179 - S.0179 X DURUM(6)	MEXICO	2337	83	114	10S	77	17	32
15	ERPEL*S* - RUSO	MEXICO	2334	89	120	20MS	76	12	32
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	2285	84	114	40MS-10S	81	0	37
2	GTA*S* X 21563 - AA*S*	MEXICO	2253	85	114	10MS	81	28	35
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	2197	76	111	20MS	65	12	30
3	MEXI*S* X CHAP - 21563	MEXICO	2185	79	112	5MS	81	33	42
14	PG*S* - PALASTINIEL 20C.606...	MEXICO	2043	77	113	20S	78	79	33
5	MEXI*S* - FG*S*	MEXICO	2018	78	112	30MS-10S	79	32	37
12	MEXI*S* X CHAP - 21563	MEXICO	1956	79	113	10MS	79	0	40
9	GTA*S* X 21563 - AA*S*	MEXICO	1891	84	118	25MS	82	9	33
11	MEXI*S* - FG*S*	MEXICO	1712	76	109	50S	81	0	37
4	MEXI*S* -GTA*S*	MEXICO	1710	80	113	40MS-10S	75	63	29
10	MEXI*S* - GTA*S*	MEXICO	1679	77	110	50S	79	10	32
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	1672	79	113	10MS-10S	82	82	24
23	MEXICALI 75	MEXICO	1649	74	108	30S	76	53	32
18	MEXI*S* - MAGH*S*	MEXICO	1591	75	109	20S	72	40	33
	GRAND MEAN		2220.2	78.0	111.0	16.6	79.9	25.4	35.6
	STANDARD ERROR OF GRAND MEAN		21.9				0.4		0.4
	COEFFICIENT OF VARIATION AS PC		0.5				4.4		9.1
	LSD VARIETY MEANS 5 PC		311.7				5.0		5.3

CORRELATIONS

YIELD KG/HA						
FLOW	DAYS	0.02				
MAT	DAYS	-0.01	0.93			
LEAF	RUST	-0.52	-0.30	-0.28		
PLNT	HT	0.48	0.36	0.34	-0.16	
LODG	%	-0.37	-0.25	-0.19	-0.11	-0.28
1000	G.W.	0.55	-0.17	-0.23	-0.28	0.29 -0.46

8TH EDYT TABLE 10 ASIA INDIA KARNATAKA

DHARWAR

LATITUDE	15 42'N	DATE PLANTED	11/22/77	NITROGEN	APPLIED
LONGITUDE	76 07'E	DATE HARVESTED	3/23/78	PHOSPHORUS	APPLIED
ELEVATION	638 M.ABOVE S.L.	AMOUNT OF MOISTURE	875 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NEGLIGIBLE DISEASE DEVELOPMENT. WEATHER NORMAL.
NO INSECT, WEED OR BIRD PROBLEMS. LOCAL CHECK: UP.301

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.
22	BEAGLE(TRITICALE)	MEXICO	2765	67	63	108	25MR	10S	96	-	38
24	JUPATECO 73 (B.W.)	MEXICO	2595	84	59	90	10S	25S	72	-	33
21	COCORIT 71	MEXICO	2493	81	59	90	25S	25S	72	15	35
25	LOCAL CHECK	***	2343	80	57	89	5S	5S	56	-	33
3	MEXI"S" X CHAP - 21563	MEXICO	2275	81	59	97	40S	25S	72	-	41
19	TC.60 - CIT"S" X RABI"S"	MEXICO	2275	82	58	92	10S	10S	63	-	35
1	21563-AA"S" X FG"S"	MEXICO	2079	82	58	96	5MR	5MR	61	10	30
11	MEXI"S" - FG"S"	MEXICO	2072	77	57	90	10S	10S	69	20	31
12	MEXI"S" X CHAP - 21563	MEXICO	1983	81	58	94	25S	10S	69	24	37
5	MEXI"S" - FG"S"	MEXICO	1983	75	62	97	40S	10S	74	-	31
7	21563 - AA"S" X FG"S"	MEXICO	1956	82	65	103	25S	10S	65	20	35
9	GTA"S" X 21563 - AA"S"	MEXICO	1725	78	62	95	10S	10S	65	20	28
16	FG"S" - MARTE"S" X GTA"S"	MEXICO	1705	77	58	92	65S	10S	56	-	27
23	MEXICALI 75	MEXICO	1670	79	59	91	40S	10S	63	10	35
13	FG"S" - MARTE"S" X GTA"S"	MEXICO	1623	81	61	90	25S	25S	65	21	29
20	MEXI"S" X CHAP - 21563	MEXICO	1617	76	60	96	40S	10S	70	21	31
8	S.0179 - S.0179 X DURUM(6)	MEXICO	1562	73	66	104	25MR	10S	61	-	26
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	1555	77	64	104	25S	10S	66	-	32
15	ERPEL"S" - RUSO	MEXICO	1528	75	68	107	25S	25S	56	15	27
10	MEXI"S" - GTA"S"	MEXICO	1454	78	57	90	40S	25S	64	19	33
2	GTA"S" X 21563 - AA"S"	MEXICO	1413	79	64	89	25S	10S	60	3	29
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	1325	75	60	95	40S	25S	68	9	32
18	MEXI"S" - MAGM"S"	MEXICO	1304	72	60	98	65S	25S	65	21	25
6	MCA"S" X 21563-AA"S"/FG"S"...	MEXICO	1223	75	66	100	25S	10S	60	-	26
4	MEXI"S" -GTA"S"	MEXICO	1155	72	50	89	40S	40S	65	21	27
	GRAND MEAN		1827.5	77.6	60.6	95.4	20.8	11.5	66.3	17.8	31.7
	STANDARD ERROR OF GRAND MEAN		25.0	0.2					0.4		0.0
	COEFFICIENT OF VARIATION AS PC		13.7	2.1					6.4		2.9
	LSD VARIETY MEANS 5 PC		352.1	2.3					5.9		1.3

CORRELATIONS

YIELD	KG/HA								
TEST	WT	0.33							
FLOW	DAYS	-0.29	-0.34						
MAT	DAYS	-0.02	-0.50	0.74					
LEAF	RUST	-0.44	-0.23	-0.18	-0.09				
STEM	RUST	-0.40	-0.23	-0.13	-0.16	0.56			
PLNT	HT	0.49	-0.38	0.02	0.29	-0.08	0.11		
LODG	%	0.02	-0.09	-0.23	-0.08	0.09	0.48	0.20	
1000	G.W.	0.72	0.44	-0.30	-0.02	-0.24	-0.33	0.44	-0.13

INDORE
CEREAL STAFF
LATITUDE 022 37'N
LONGITUDE 075 50'E
ELEVATION 0600 M.ABOVE S.L.

DATE PLANTED --/--/--
DATE HARVESTED -- /--/--
AMOUNT OF MOISTURE -- MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM APPLIED

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
TEMPERATURE HIGHER THAN NORMAL AT MATURITY. HAND WEEDING.
LOCAL CHECK NAME 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.
10	MEXI*S* - MAGH*S*	MEXICO	4243	74	78	118	30MR	0	86	37
21	COCORIT 71	MEXICO	4220	77	77	119	10MR	--	93	42
7	21563 - AA*S* X FG*S*	MEXICO	3945	79	77	122	10MR	0	99	42
11	MEXI*S* - FG*S*	MEXICO	3886	78	78	114	5MR	--	90	45
5	MEXI*S* - FG*S*	MEXICO	3774	77	76	114	TS	--	82	40
24	JUPATECO 73 (B.W.)	MEXICO	3722	79	80	122	0	0	96	33
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	3657	78	85	120	10S	--	94	42
1	21563-AA*S* X FG*S*	MEXICO	3650	82	78	118	20MS	10MR	93	42
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	3640	80	81	115	15S	0	92	39
3	MEXI*S* X CHAP - 21563	MEXICO	3606	79	77	121	0	0	93	46
15	ERPEL*S* - RUSO	MEXICO	3454	75	88	124	10MR	--	84	38
23	MEXICALI 75	MEXICO	3402	77	74	114	20MS	0	88	44
14	FG*S* - PALASTINIEN 20C.606...	MEXICO	3349	78	76	120	TR	TR	83	44
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	3343	77	86	122	20MS	0	88	29
4	MEXI*S* -GTA*S*	MEXICO	3323	75	80	121	10S	TS	74	37
10	MEXI*S* - GTA*S*	MEXICO	3290	75	76	114	30S	--	83	40
2	GTA*S* X 21563 - AA*S*	MEXICO	3272	81	85	116	TS	TMS	90	39
12	MEXI*S* X CHAP - 21563	MEXICO	3250	78	78	121	10S	0	74	44
20	MEXI*S* X CHAP - 21563	MEXICO ***	3152	80	76	121	TR	--	92	46
8	S.0179 - S.0179 X DURUM(6)	MEXICO	3084	70	85	124	0	0	84	35
19	TC.60 - CIT*S* X RABI*S*	MEXICO	3076	77	77	116	5MR	0	83	42
25	LOCAL CHECK		3010	81	79	121	30MS	0	86	45
9	GTA*S* X 21563 - AA*S*	MEXICO	2837	78	81	117	20MR	TS	94	36
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	2443	74	79	120	TR	TS	73	36
22	BEAGLE(TRITICALE)	MEXICO	2150	66	81	126	30MS	0	120	33
	GRAND MEAN		3392.6	77.4	79.5	119.2	8.4		88.9	39.6
	STANDARD ERROR OF GRAND MEAN		57.6	0.2						
	COEFFICIENT OF VARIATION AS PC		17.0	2.5						
	LSD VARIETY MEANS 5 PC		812.3	2.7						

CORRELATIONS

	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT
TEST WT	0.42					
FLOW DAYS	-0.18	-0.06				
MAT DAYS	-0.34	-0.30	0.45			
LEAF RUST	-0.22	-0.29	-0.03	-0.07		
PLNT HT	-0.15	-0.32	0.09	0.29	0.25	
1000 G.W.	0.28	0.46	-0.58	-0.35	-0.13	-0.18

DURGAPURA
S.M.GANDHI

LATITUDE	026 58'N	DATE PLANTED	12/ 2/77	NITROGEN	APPLIED
LONGITUDE	075 48'E	DATE HARVESTED	5/ 4/78	PHOSPHORUS	APPLIED
ELEVATION	0450 M.ABOVE S.L.	AMOUNT OF MOISTURE	39 MM	POTASSIUM	APPLIED

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
WEATHER NORMAL. NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: RAJ-911

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	PLNT HT	1000 G.W.
18	MEXI*S* - MAGH*S*	MEXICO	3938	87	128	10R	71	46
2	GTA*S* X 21563 - AA*S*	MEXICO	3700	91	131	5R	81	41
15	ERPEL*S* - RUSO	MEXICO	3588	92	135	TR	79	41
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	3381	91	135	TR	76	34
12	MEXI*S* X CHAP - 21563	MEXICO	3356	87	127	5R	80	48
7	21563 - AA*S* X PG*S*	MEXICO	3338	87	131	5R	78	46
3	MEXI*S* X CHAP - 21563	MEXICO	3213	86	127	---	82	47
21	COCORIT 71	MEXICO	3206	87	130	5R	83	36
8	S.0179 - S.0179 X DURUM(6)	MEXICO	3131	89	133	TR	71	38
9	GTA*S* X 21563 - AA*S*	MEXICO	3119	90	133	10R	80	52
20	MEXI*S* X CHAP - 21563	MEXICO	3106	84	127	5R	77	46
1	21563-AA*S* X PG*S*	MEXICO	3088	87	130	5R	71	44
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	2944	88	129	10R	76	44
5	MEXI*S* - PG*S*	MEXICO	2938	87	130	TR	76	42
19	TC.60 - CIT*S* X RABI*S*	MEXICO	2925	87	128	TR	72	42
10	MEXI*S* - GTA*S*	MEXICO	2881	86	129	10S	75	34
14	PG*S* - PALASTINIEN 20C.606...	MEXICO	2881	87	130	5R	75	41
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	2813	89	134	TR	62	36
11	MEXI*S* - PG*S*	MEXICO	2681	87	130	TR	79	46
4	MEXI*S* -GTA*S*	MEXICO	2656	90	130	10R	75	42
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	2650	90	130	TR	72	42
22	BEAGLE(TRITICALE)	MEXICO	2550	88	132	5R	113	39
24	JUPATECO 73 (B.W.)	MEXICO	2525	87	126	TR	82	31
25	LOCAL CHECK	***	1794	91	132	TR	72	35
23	MEXICALI 75	MEXICO	1550	81	126	5R	75	39
	GRAND MEAN		2958.8	87.6	130.1	2.5	77.2	41.3
	STANDARD ERROR OF GRAND MEAN		89.9				0.4	
	COEFFICIENT OF VARIATION AS PC		30.4				4.6	
	LSD VARIETY MEANS 5 PC		1267.2				5.0	

CORRELATIONS

YIELD	KG/HA					
FLOW	DAYS	0.30				
MAT	DAYS	0.21	0.77			
LEAF	RUST	-0.05	0.06	0.12		
PLNT	HT	-0.03	-0.03	-0.02	0.08	
1000	G.W.	0.36	-0.12	-0.10	-0.30	0.03

SZEGED C.R.I.
B. ZOLTAN

LATITUDE	46 00'N	DATE PLANTED	10/30/77	NITROGEN	--
LONGITUDE	20 00'E	DATE HARVESTED	/ /	PHOSPHORUS	--
ELEVATION	80 M.ABOVE S.L.	AMOUNT OF MOISTURE	619 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
MILD AND DRY WINTER AND SPRING, SLIGHTLY RAINY IN THE SUMMER
NO INSECT, WEED OR BIRD PROBLEMS.
LOCAL CHECK: GK MINARET.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT	1000 G.W.
22	BEAGLE(TRITICALE)	MEXICO	9444	65	142	------	120	47
20	MEXI*S* X CHAP - 21563	MEXICO ***	7986	73	145	10MR	81	46
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	7917	74	146	5R	78	45
1	21563-AA*S* X FG*S*	MEXICO	7430	74	148	10MR-S	79	42
7	21563 - AA*S* X FG*S*	MEXICO	7389	79	148	10MR	76	43
11	MEXI*S* - FG*S*	MEXICO	7264	72	148	10MR-MS	83	45
24	JUPATECO 73 (B.W.)	MEXICO	7180	77	141	MR	93	34
2	GTA*S* X 21563 - AA*S*	MEXICO	7125	71	147	20MR	86	36
15	ERPEL*S* - RUSO	MEXICO	7111	74	145	10MR-R	76	42
5	MEXI*S* - FG*S*	MEXICO	6958	71	149	10MR	81	44
21	COCORIT 71	MEXICO	6930	73	145	TMR	81	44
14	FG*S* - PALASTINIEN 20C.606...	MEXICO	6889	69	146	20MR	84	35
23	MEXICALI 75	MEXICO	6875	73	145	10MS-S	84	47
12	MEXI*S* X CHAP - 21563	MEXICO	6819	73	146	10MS-S	84	48
9	GTA*S* X 21563 - AA*S*	MEXICO	6805	71	146	30MR	89	36
18	MEXI*S* - MAGH*S*	MEXICO	6778	72	149	30MR	76	49
3	MEXI*S* X CHAP - 21563	MEXICO	6778	72	146	20MR	83	42
4	MEXI*S* -GTA*S*	MEXICO	6736	68	150	10MR	81	35
10	MEXI*S* - GTA*S*	MEXICO	6472	67	147	30MR-S	84	38
19	TC.60 - CIT*S* X RABI*S*	MEXICO	6194	70	150	5MR	74	42
8	S.0179 - S.0179 X DURUM(6)	MEXICO	6153	63	149	10MR	75	33
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	6097	75	150	10MR	84	40
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	5625	67	150	10R	70	32
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	5403	68	147	20MR	81	32
25	LOCAL CHECK		5194	62	145	10MR-MS	95	31
	GRAND MEAN		6862.2	70.9	146.6	13.6	83.1	40.2
	STANDARD ERROR OF GRAND MEAN		72.4	0.2			0.3	0.3
	COEFFICIENT OF VARIATION AS PC		10.6	3.1			3.5	8.3
	LSD VARIETY MEANS 5 PC		1020.7	3.1			4.1	4.7

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.34				
FLOW	DAYS	-0.49	-0.11			
LEAF	RUST	-0.17	-0.00	0.32		
PLNT	HT	0.47	-0.27	-0.70	-0.13	
1000	G.W.	0.62	0.48	-0.11	0.09	0.05

PBS ALENTEJO
M.T.BARRADAS ET AL

LATITUDE	038 54'N	DATE PLANTED	11/10/77	NITROGEN	APPLIED
LONGITUDE	007 09'W	DATE HARVESTED	7/ 3/78	PHOSPHORUS	APPLIED
ELEVATION	0288 M.ABOVE S.L.	AMOUNT OF MOISTURE	612 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
PERSISTENT AND HEAVY RAINFALL DURING THE WINTER.
CHEMICAL CONTROL OF WEEDS. NEGLIGIBLE INSECT AND BIRD DAMAGE.
LOCAL CHECK: MAIORAL I

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT
19	TC.60 - CIT*S* X RABI*S*	MEXICO	3950	78	139	202	0	10S	TMR	77	12	56	39
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	3875	78	145	200	0	0	0	72	0	40	11
20	MEXI*S* X CHAP - 21563	MEXICO	3704	76	136	202	0	10S	0	90	12	55	22
18	MEXI*S* - GTA*S*	MEXICO	3570	76	140	204	0	10S	10MS	84	0	53	17
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	3563	77	140	208	0	0	5MS	81	12	58	56
10	MEXI*S* - MAGH*S*	MEXICO	3470	77	140	204	0	5S	TMR	80	0	57	33
4	MEXI*S* -GTA*S*	MEXICO	3437	77	144	204	0	5S	TR	86	0	54	11
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	3435	78	151	200	0	0	5MR	83	6	47	11
21	COCORIT 71	MEXICO	3404	77	134	202	TS	5S	0	84	12	52	11
22	BEAGLE(TRITICALE)	MEXICO	3315	69	132	205	0	10S	0	123	12	40	11
15	ERPEL*S* - RUSO	MEXICO	3314	78	149	207	0	0	0	86	0	60	39
3	MEXI*S* X CHAP - 21563	MEXICO	3281	78	139	202	10R	5S	5MS	81	12	57	11
14	FG*S* - PALASTINIEN 20C.606...	MEXICO	3269	77	138	205	5S	5S	TR	84	6	47	11
8	S.0179 - S.0179 X DURUM(6)	MEXICO	3235	76	138	202	0	0	TR	79	6	44	22
11	MEXI*S* - FG*S*	MEXICO	3181	77	139	205	0	10S	TR	88	6	56	22
2	GTA*S* X 21563 - AA*S*	MEXICO	3094	79	148	204	0	5S	TMR	88	6	55	11
9	GTA*S* X 21563 - AA*S*	MEXICO	3089	79	149	205	0	10S	5R	87	6	52	11
1	21563-AA*S* X FG*S*	MEXICO ***	2910	80	146	204	0	10S	TR	81	12	56	11
12	MEXI*S* X CHAP - 21563	MEXICO	2884	78	139	205	0	10S	TR	84	6	50	11
25	LOCAL CHECK		2872	80	151	209	0	0	TR	77	0	53	39
7	21563 - AA*S* X FG*S*	MEXICO	2737	79	143	203	0	5S	TMR	83	12	58	11
23	MEXICALI 75	MEXICO	2702	76	132	201	0	5S	5MS	85	12	55	56
5	MEXI*S* - FG*S*	MEXICO	2385	76	130	204	0	5S	TR	89	6	54	20
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	2209	79	140	205	0	5S	0	82	12	53	33
24	JUPATECO 73 (B.W.)	MEXICO	1556	78	122	205	60S	40S	M	89	12	35	70
		GRAND MEAN	3137.6	77.4	140.8	204.5	2.5	6.0	1.1	84.0	7.2	52.0	24.5
		STANDARD ERROR OF GRAND MEAN	53.7	0.0						0.4			
		COEFFICIENT OF VARIATION AS PC	17.1	1.2						5.2			
		LSD VARIETY MEANS 5 PC	755.5	1.3						6.3			

CORRELATIONS

YIELD	KG/HA									
TEST	WT	-0.20								
FLOW	DAYS	0.26	0.54							
MAT	DAYS	0.02	0.20	0.50						
STRP	RT.L	-0.60	0.06	-0.59	0.05					
STRP	RT.H	-0.55	-0.05	-0.65	-0.20	0.86				
LEAF	RUST	0.12	-0.11	-0.14	-0.07	-0.00	0.03			
PLNT	HT	-0.13	-0.01	-0.37	-0.09	0.09	0.28	-0.09		
LODG	%	-0.28	-0.14	-0.46	-0.48	0.20	0.33	0.00	0.26	
1000	G.W.	0.34	0.21	0.42	-0.12	-0.72	-0.52	0.06	-0.17	-0.06
SEPT	TRIT	-0.44	0.06	-0.42	0.10	0.57	0.42	0.19	-0.10	0.19 -0.21

A. HADJICHRISTODOULOU

LATITUDE	35 04'N	DATE PLANTED	12/ 3/77	NITROGEN	APPLIED
LONGITUDE	33 20'E	DATE HARVESTED	6/19/78	PHOSPHORUS	APPLIED
ELEVATION	150 M.ABOVE S.L.	AMOUNT OF MOISTURE	266 MM	POTASSIUM	--

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

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT	1000 G.W.
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	2241	88	80	48
18	MEXI"S" - MAGH"S"	MEXICO	2237	90	70	46
21	COCORIT 71	MEXICO	2220	88	85	47
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	2166	97	65	33
12	MEXI"S" X CHAP - 21563	MEXICO	2157	88	85	51
22	BEAGLE(TRITICALE)	MEXICO	1947	82	110	41
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	1822	95	63	35
25	LOCAL CHECK		1799	88	85	47
8	S.0179 - S.0179 X DURUM(6)	MEXICO	1795	86	75	41
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	1728	90	70	45
15	ERPEL"S" - RUSO	MEXICO	1723	96	70	43
20	MEXI"S" X CHAP - 21563	MEXICO	1715	92	75	47
23	MEXICALI 75	MEXICO	1661	87	70	48
1	21563-AA"S" X FG"S"	MEXICO	1554	90	80	47
19	TC.60 - CIT"S" X RABI"S"	MEXICO	1527	90	77	45
2	GTA"S" X 21563 - AA"S"	MEXICO	1402	92	80	43
4	MEXI"S" -GTA"S"	MEXICO	1398	94	82	47
10	MEXI"S" - GTA"S"	MEXICO	1380	92	85	43
11	MEXI"S" - FG"S"	MEXICO	1317	90	83	49
7	21563 - AA"S" X FG"S"	MEXICO	1304	88	75	48
9	GTA"S" X 21563 - AA"S"	MEXICO	1125	92	70	42
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	1125	91	70	43
3	MEXI"S" X CHAP - 21563	MEXICO	1009	89	85	51
24	JUPATECO 73 (B.W.)	MEXICO	843	85	82	31
5	MEXI"S" - FG"S"	MEXICO	804	91	70	47
		GRAND MEAN	1600.4	90.0	78.0	44.0

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

CORRELATIONS

YIELD KG/HA				
FLOW	DAYS	-0.02		
PLNT	HT	0.08	-0.65	
1000	G.W.	0.05	-0.18	0.23

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

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

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
INSUFFICIENT RAIN IN MID-OCTOBER. ALMOST NO RAIN IN NOVEMBER.
INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: HAZERA 379

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	LODG %	1000 G.W.
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	7655	81	98	93	43	61
8	S.0179 - S.0179 X DURUM(6)	MEXICO	7586	82	98	82	4	53
1	21563-AA"S" X FG"S"	MEXICO	7422	83	99	91	23	53
21	COCORIT 71	MEXICO	7261	80	93	89	31	55
7	21563 - AA"S" X FG"S"	MEXICO	7221	83	99	92	18	57
9	GTA"S" X 21563 - AA"S"	MEXICO	7123	80	104	94	51	49
19	TC.60 - CIT"S" X RABI"S"	MEXICO	7022	80	97	83	0	62
20	MEXI"S" X CHAP - 21563	MEXICO	6880	80	96	89	45	62
12	MEXI"S" X CHAP - 21563	MEXICO	6787	80	98	89	30	63
15	ERPEL"S" - RUSO	MEXICO	6684	81	106	87	8	49
11	MEXI"S" - FG"S"	MEXICO	6605	79	99	96	70	49
5	MEXI"S" - FG"S"	MEXICO	6594	79	97	92	.50	54
25	LOCAL CHECK		6589	81	95	84	0	57
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	6578	79	99	76	0	48
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	6427	81	101	93	24	49
3	MEXI"S" X CHAP - 21563	MEXICO	6411	81	98	92	56	60
4	MEXI"S" -GTA"S"	MEXICO ***	6348	78	98	92	63	49
10	MEXI"S" - GTA"S"	MEXICO	6274	79	98	87	40	55
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	6234	79	96	87	54	52
24	JUPATECO 73 (B.W.)	MEXICO	6084	81	91	99	5	39
23	MEXICALI 75	MEXICO	6073	80	89	88	80	59
18	MEXI"S" - MAGH"S"	MEXICO	6046	80	97	85	25	61
22	BEAGLE(TRITICALE)	MEXICO	5941	69	98	128	1	48
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	5734	81	105	87	65	43
2	GTA"S" X 21563 - AA"S"	MEXICO	5346	80	105	95	34	51
	GRAND MEAN		6597.0	79.9	98.0	90.7	32.7	53.5
	STANDARD ERROR OF GRAND MEAN		73.1	0.0		0.3		0.3
	COEFFICIENT OF VARIATION AS PC		11.1	0.8		3.7		5.4
	LSD VARIETY MEANS 5 PC		1031.0	0.9		4.0		4.0

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.39				
FLOW	DAYS	-0.08	0.06			
PLNT	HT	-0.28	-0.69	0.04		
LODG	%	-0.22	0.05	-0.03	-0.02	
1000	G.W.	0.37	0.18	-0.28	-0.29	0.07

TABLE 17 MIDDLE EAST JORDAN RAMTHA

RAMTHA
M. DUWARYI ET AL
LATITUDE
LONGITUDE
ELEVATION M.ABOVE S.L.

DATE PLANTED 11/15/77
DATE HARVESTED 7/19/78
AMOUNT OF MOISTURE 222 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
TOTAL AMOUNT OF RAINS WAS LESS THAN AVERAGE.
NEGLIGIBLE DISEASE DEVELOPMENT. BIRD AND WEED PROBLEM.
LOCAL CHECK: DEIR ALLA 2

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
1	21563-AA"S" X FG"S"	MEXICO	886	96	151	64	28
20	MEXI"S" X CHAP - 21563	MEXICO	820	96	150	59	24
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	807	98	149	54	31
25	LOCAL CHECK		806	107	151	61	35
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	754	96	152	58	28
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	742	99	148	59	33
5	MEXI"S" - FG"S"	MEXICO	727	96	150	61	30
24	JUPATECO 73 (B.W.)	MEXICO	722	93	147	43	33
3	MEXI"S" X CHAP - 21563	MEXICO	716	96	147	66	38
7	21563 - AA"S" X FG"S"	MEXICO	711	96	150	54	33
2	GTA"S" X 21563 - AA"S"	MEXICO	709	101	149	62	28
18	MEXI"S" - MAGH"S"	MEXICO	698	99	148	54	30
4	MEXI"S" -GTA"S"	MEXICO	696	98	151	61	26
12	MEXI"S" X CHAP - 21563	MEXICO	692	98	154	54	32
11	MEXI"S" - FG"S"	MEXICO	692	98	146	56	29
8	S.0179 - S.0179 X DURUM(6)	MEXICO	687	96	152	44	33
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	672	103	146	54	24
10	MEXI"S" - GTA"S"	MEXICO	672	95	150	54	33
22	BEAGLE(TRITICALE)	MEXICO	666	98	154	77	32
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	656	102	146	56	26
21	COCORIT 71	MEXICO	594	93	146	61	39
23	MEXICALI 75	MEXICO	594	93	149	59	37
19	TC.60 - CIT"S" X RABI"S"	MEXICO	590	93	150	51	40
9	GTA"S" X 21563 - AA"S"	MEXICO	581	102	146	54	28
15	ERPEL"S" - RUSO	MEXICO	544	104	152	51	29
	GRAND MEAN		697.3	97.9	149.3	56.9	31.1
	STANDARD ERROR OF GRAND MEAN		20.0			0.2	
	COEFFICIENT OF VARIATION AS PC		28.6			3.0	
	LSD VARIETY MEANS 5 PC		201.4			2.4	

CORRELATIONS

	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
FLOW DAYS	0.00				
MAT DAYS	0.18	-0.02			
PLNT HT	0.21	0.08	0.19		
1000 G.W.	-0.26	-0.46	0.00	0.00	

8TH EDYT TABLE 18 MIDDLE EAST SYRIA ALEPPO

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

DATE PLANTED 11/20/77
DATE HARVESTED 6/10/78
AMOUNT OF MOISTURE 400 MM

NITROGEN APPLIED
PHOSPHORUS APPLIED
POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
NO SIGNIFICANT RAINFALL AFTER MARCH.
NEGLIGIBLE 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	MAT DAYS	PLNT HT	BYDV
7	21563 - AA"S" X FG"S"	MEXICO	2194	126	159	70	33
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	2158	124	159	65	11
1	21563-AA"S" X FG"S"	MEXICO	2079	126	161	70	22
12	MEXI"S" X CHAP - 21563	MEXICO	1925	124	157	70	22
18	MEXI"S" - MAGH"S"	MEXICO	1891	124	156	60	22
21	COCORIT 71	MEXICO	1887	120	160	75	44
10	MEXI"S" - GTA"S"	MEXICO	1862	125	158	70	11
15	ERPEL"S" - RUSO	MEXICO	1852	131	159	70	22
5	MEXI"S" - FG"S"	MEXICO	1806	136	165	75	11
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	1795	123	156	75	22
2	GTA"S" X 21563 - AA"S"	MEXICO	1773	135	161	65	22
23	MEXICALI 75	MEXICO	1767	119	151	80	22
4	MEXI"S" -GTA"S"	MEXICO	1744	129	159	70	44
11	MEXI"S" - FG"S"	MEXICO ***	1736	124	159	80	33
9	GTA"S" X 21563 - AA"S"	MEXICO	1718	134	159	70	44
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	1708	130	159	65	33
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	1646	133	160	65	70
20	MEXI"S" X CHAP - 21563	MEXICO	1644	124	160	65	33
3	MEXI"S" X CHAP - 21563	MEXICO	1634	127	160	70	44
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	1602	125	154	60	0
8	S.0179 - S.0179 X DURUM(6)	MEXICO	1593	124	149	65	22
25	LOCAL CHECK		1525	136	-	110	22
24	JUPATECO 73 (B.W.)	MEXICO	1410	122	149	75	11
19	TC.60 - CIT"S" X RABI"S"	MEXICO	1347	124	160	55	56
22	BEAGLE(TRITICALE)	MEXICO	1186	120	156	100	22
		GRAND MEAN	1739.2	126.6	157.8	71.8	28.2
		STANDARD ERROR OF GRAND MEAN	26.8				
		COEFFICIENT OF VARIATION AS PC	15.4				
		LSD VARIETY MEANS 5 PC	378.0				

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	0.05			
MAT	DAYS	0.33	0.55		
PLNT	HT	-0.30	0.05	-0.10	
BYDV		-0.15	0.17	0.35	-0.17

EL BATAN
CIMMYT

LATITUDE	019 31'N	DATE PLANTED	06/15/78	NITROGEN	APPLIED
LONGITUDE	098 50'W	DATE HARVESTED	10/15/78	PHOSPHORUS	APPLIED
ELEVATION	2249 M.ABOVE S.L.	AMOUNT OF MOISTURE	494 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD. WEATHER NORMAL.
CHEMICAL CONTROL OF INSECTS. WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK: MEXICALI 75

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	PLNT HT	1000 G.W.
20	MEXI*S* X CHAP - 21553	MEXICO	5801	61	0	90	49
23	MEXICALI 75	MEXICO	5629	54	TR	87	47
10	MEXI*S* - GTA*S*	MEXICO	5254	58	0	82	45
25	LOCAL CHECK	***	4999	54	TR	82	45
9	GTA*S* X 21563 - AA*S*	MEXICO	4952	61	TR	89	46
14	PG*S* - PALASTINIEN 20C.606...	MEXICO	4749	58	5S	82	42
4	MEXI*S* -GTA*S*	MEXICO	4619	60	TMS	81	45
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	4588	57	0	85	39
22	BEAGLE(TRITICALE)	MEXICO	4525	65	TR	135	42
11	MEXI*S* - PG*S*	MEXICO	4458	56	5MS	86	42
21	COCORIT 71	MEXICO	4307	58	TR	89	36
5	MEXI*S* - PG*S*	MEXICO	4275	56	TR	80	45
7	21563 - AA*S* X PG*S*	MEXICO	4249	61	TR	86	44
12	MEXI*S* X CHAP - 21563	MEXICO	4208	62	TR	87	50
18	MEXI*S* - MAGH*S*	MEXICO	4140	59	TS	80	47
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	4005	63	TR	86	33
19	TC.60 - CIT*S* X RABI*S*	MEXICO	3989	61	0	79	38
2	GTA*S* X 21563 - AA*S*	MEXICO	3916	61	TR	90	43
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	3848	58	0	70	35
1	21563-AA*S* X PG*S*	MEXICO	3786	58	TR	81	42
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	3682	61	TR	85	40
24	JUPATECO 73 (B.W.)	MEXICO	3645	61	20S	101	29
15	ERPEL*S* - RUSO	MEXICO	2994	62	0	77	40
3	MEXI*S* X CHAP - 21563	MEXICO	2515	61	TR	89	33
8	S.0179 - S.0179 X DURUM(6)	MEXICO	2255	65	0	77	33
	GRAND MEAN		4215.6	39.5	1.1	86.4	41.2
	STANDARD ERROR OF GRAND MEAN		50.1			0.4	0.4
	COEFFICIENT OF VARIATION AS PC		11.9			4.3	9.7
	LSD VARIETY MEANS 5 PC		706.0			5.3	5.6

CORRELATIONS

YIELD KG/HA					
FLOW	DAYS	-0.51			
STRP	RT.L	0.13	-0.28		
PLNT	HT	0.16	0.38	0.12	
1000	G.W.	0.66	-0.30	-0.20	-0.01

EL BAJIO
R. URBINA

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

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

VAR NO.	VARIETY OR CROSS	ORIGIN	LEAF RUST	STEM RUST
1	21563-AA°S° X PG°S°	MEXICO	0	0
2	GTA°S° X 21563 - AA°S°	MEXICO	TMR	0
3	MEXI°S° X CHAP - 21563	MEXICO	5S	TS
4	MEXI°S° -GTA°S°	MEXICO	20S	0
5	MEXI°S° - PG°S°	MEXICO	10S	TS
6	MCA°S° X 21563-AA°S°/PG°S°...	MEXICO	10MS-S	0
7	21563 - AA°S° X PG°S°	MEXICO	10R	0
8	S.0179 - S.0179 X DURUM(6)	MEXICO	20MS-S	5S
9	GTA°S° X 21563 - AA°S°	MEXICO	10S	5S
10	MEXI°S° - GTA°S°	MEXICO	40S	0
11	MEXI°S° - PG°S°	MEXICO	10MR	0
12	MEXI°S° X CHAP - 21563	MEXICO	10MR-MS	TS
13	PG°S° - MARTE°S° X GTA°S°	MEXICO	10MR-MS	0
14	PG°S° - PALASTINIEN 20C.606...	MEXICO	20MS-S	0
15	ERPEL°S° - RUSO	MEXICO	TMR	0
16	PG°S° - MARTE°S° X GTA°S°	MEXICO	TS	0
17	GEIER°S° - USA 0676 X JO°S°...	MEXICO	0-10MS	0
18	MEXI°S° - MAGH°S°	MEXICO	TMS-S	0
19	TC.60 - CIT°S° X RABI°S°	MEXICO	TR	0
20	MEXI°S° X CHAP - 21563	MEXICO	TMS	0
21	COCORIT 71	MEXICO	10S	0
22	BEAGLE(TRITICALE)	MEXICO	TMR-MS	0
23	MEXICALI 75	MEXICO	20S	TS
24	JUPATECO 73 (B.W.)	MEXICO	20-60S	0
25	LOCAL CHECK		20S	TS
	GRAND MEAN		9.9	0.6

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

CORRELATIONS

LEAF RUST
STEM RUST 0.14

STR EDYT TABLE 21 NORTH AMERICA MEXICO MICHOACAN

PATZCUARO
CIMMYT

LATITUDE	19 30'N	DATE PLANTED	--/--/--	NITROGEN	--
LONGITUDE	101 40'W	DATE HARVESTED	--/--/--	PHOSPHORUS	--
ELEVATION	M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

SOWING DATE AND SOIL MOISTURE CONDITION AT SOWING NOT REPORTED.
WEATHER NOT REPORTED. INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.
LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	SEPT TRIT	SCAB %
1	21563-AA*S* X FG*S*	MEXICO	67	50
2	GTA*S* X 21563 - AA*S*	MEXICO	67	50
3	MEXI*S* X CHAP - 21563	MEXICO	67	20
4	MEXI*S* -GTA*S*	MEXICO	33	40
5	MEXI*S* - FG*S*	MEXICO	56	30
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	67	30
7	21563 - AA*S* X FG*S*	MEXICO	22	50
8	S.0179 - S.0179 X DURUM(6)	MEXICO	33	20
9	GTA*S* X 21563 - AA*S*	MEXICO	44	60
10	MEXI*S* - GTA*S*	MEXICO	78	50
11	MEXI*S* - FG*S*	MEXICO	67	50
12	MEXI*S* X CHAP - 21563	MEXICO	67	40
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	33	30
14	FG*S* - PALASTINIEN 20C.606...	MEXICO	33	50
15	ERPEL*S* - RUSO	MEXICO	78	30
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	67	30
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	67	20
18	MEXI*S* - MAGH*S*	MEXICO	56	20
19	TC.60 - CIT*S* X RABI*S*	MEXICO	67	50
20	MEXI*S* X CHAP - 21563	MEXICO	89	60
21	COCORIT 71	MEXICO	67	40
22	BEAGLE(TRITICALE)	MEXICO	11	0
23	MEXICALI 75	MEXICO	78	40
24	JUPATECO 73 (B.W.)	MEXICO	56	60
25	LOCAL CHECK		78	40
	GRAND MEAN		57.9	38.4

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

CORRELATIONS

	SEPT TRIT
SCAB %	0.30

CIANO (2ND DATE)
CIMMYT

LATITUDE	027 20'N	DATE PLANTED	11/28/77	NITROGEN	APPLIED
LONGITUDE	109 54'W	DATE HARVESTED	04/20/78	PHOSPHORUS	APPLIED
ELEVATION	0038 M.ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
HIGH TEMPERATURES DURING DECEMBER AND JANUARY.
CHEMICAL CONTROL OF INSECTS. LOCAL CHECK: MEXICALI 75

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	LEAF RUST	PLNT HT
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	6908	73	TMR	89
20	MEXI"S" X CHAP - 21563	MEXICO	6849	73	TR	94
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	6774	83	20MS	95
11	MEXI"S" - FG"S"	MEXICO	6616	69	TR	93
7	21563 - AA"S" X FG"S"	MEXICO	6558	76	TR	95
5	MEXI"S" - FG"S"	MEXICO	6558	70	20MR	93
12	MEXI"S" X CHAP - 21563	MEXICO	6558	74	TR	93
1	21563-AA"S" X FG"S"	MEXICO	6524	77	TR	93
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	6474	69	TR	88
19	TC.60 - CIT"S" X RABI"S"	MEXICO	6466	73	TR	88
10	MEXI"S" - GTA"S"	MEXICO	6449	74	50S	91
18	MEXI"S" - MAGH"S"	MEXICO	6324	73	40MR	85
25	LOCAL CHECK		6299	64	20MR	93
9	GTA"S" X 21563 - AA"S"	MEXICO	6283	84	20S	98
8	S.0179 - S.0179 X DURUM(6)	MEXICO	6199	78	10S	84
4	MEXI"S" -GTA"S"	MEXICO	6116	75	TR	89
21	COCORIT 71	MEXICO	6058	72	10MR	93
2	GTA"S" X 21563 - AA"S"	MEXICO	6049	84	TR	98
15	ERPEL"S" - RUSO	MEXICO	6049	85	TS	89
3	MEXI"S" X CHAP - 21563	MEXICO ***	5999	74	TMR	91
22	BEAGLE(TRITICALE)	MEXICO	5958	80	20MS	138
23	MEXICALI 75	MEXICO	5799	64	10MS	91
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	5649	83	TR	86
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	5649	78	TR	79
24	JUPATECO 73 (B.W.)	MEXICO	5291	73	60S	99
	GRAND MEAN		6258.4	75.0	8.8	92.8
	STANDARD ERROR OF GRAND MEAN		50.9			0.4
	COEFFICIENT OF VARIATION AS PC		8.1			4.1
	LSD VARIETY MEANS 5 PC		717.1			5.4

CORRELATIONS

	YIELD KG/HA	FLOW DAYS	LEAF RUST	PLNT HT
FLOW DAYS	-0.15			
LEAF RUST	-0.31	-0.01		
PLNT HT	-0.08	0.17	0.23	

LA PLATINA
J.RAMIREZ

LATITUDE	033 27'S	DATE PLANTED	8/ 9/77	NITROGEN	APPLIED
LONGITUDE	070 38'W	DATE HARVESTED	1/12/78	PHOSPHORUS	APPLIED
ELEVATION	0629 M.ABOVE S.L.	AMOUNT OF MOISTURE	275 MM	POTASSIUM	--

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
RAINFALL IN WINTER BIGGER THAN NORMAL. SOME FROST DAMAGE.
SEVERE ATTACK OF BYDV AND FUSARIUM. APHID PROBLEMS.
LOCAL CHECK: CRANE "S".

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	BYDV
22	BEAGLE(TRITICALE)	MEXICO	2932	68	76	100	20
24	JUPATECO 73 (B.W.)	MEXICO ***	2333	79	71	80	20
15	ERPEL"S" - RUSO	MEXICO	2244	74	78	60	20
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	2021	71	77	60	15
9	GTA"S" X 21563 - AA"S"	MEXICO	1979	77	80	65	50
2	GTA"S" X 21563 - AA"S"	MEXICO	1885	77	79	65	30
25	LOCAL CHECK		1812	73	71	65	30
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	1807	78	82	65	40
18	MEXI"S" - MAGH"S"	MEXICO	1489	73	76	60	60
1	21563-AA"S" X PG"S"	MEXICO	1479	75	71	65	30
5	MEXI"S" - PG"S"	MEXICO	1448	68	71	70	40
10	MEXI"S" - GTA"S"	MEXICO	1375	70	72	60	50
7	21563 - AA"S" X PG"S"	MEXICO	1364	74	71	65	60
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	1307	77	77	65	20
19	TC.60 - CIT"S" X RABI"S"	MEXICO	1219	69	71	70	20
12	MEXI"S" X CHAP - 21563	MEXICO	1031	71	74	75	20
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	943	68	73	65	20
20	MEXI"S" X CHAP - 21563	MEXICO	937	68	72	70	30
3	MEXI"S" X CHAP - 21563	MEXICO	927	69	72	75	40
4	MEXI"S" -GTA"S"	MEXICO	922	71	75	60	50
14	PG"S" - PALASTINIEN 20C.606...	MEXICO	901	74	78	60	80
11	MEXI"S" - PG"S"	MEXICO	849	70	73	80	70
8	S.0179 - S.0179 X DURUM(6)	MEXICO	812	70	74	70	30
21	COCORIT 71	MEXICO	786	74	72	70	50
23	MEXICALI 75	MEXICO	724	66	70	75	50
		GRAND MEAN	1421.0	72.2	74.2	68.6	37.8
		STANDARD ERROR OF GRAND MEAN	35.0				
		COEFFICIENT OF VARIATION AS PC	24.7				
		LSD VARIETY MEANS 5 PC	494.0				

CORRELATIONS

YIELD	KG/HA				
TEST	WT	0.40			
FLOW	DAYS	0.30	0.51		
PLNT	HT	0.25	-0.31	-0.25	
BYDV		-0.43	0.02	0.02	-0.20

Table 24. REGION I. Summary for yield, agronomic and disease data fr · the 8th EDYT.

(Locations: Mahdi Boualem, ALGERIA; Sohag, EGYPT; El Al-Maro, LIBYA; Merchouch, MOROCCO, Tunis, TUNISIA.)

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
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	5708	80	102	143	24	89	20	50	33
7	21563 - AA"S" X FG"S"	MEXICO	5555	79	100	139	9	90	33	53	33
20	MEXI"S" X CHAP - 21563	MEXICO	5518	80	101	144	12	93	23	50	33
1	21563-AA"S" X FG"S"	MEXICO	5441	82	102	140	12	88	15	49	33
15	ERPEL"S" - RUSO	MEXICO	5396	80	110	149	54	89	25	50	22
3	MEXI"S" X CHAP - 21563	MEXICO	5316	80	100	147	12	90	47	47	22
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	5258	78	100	145	18	89	45	43	44
9	GTA"S" X 21563 - AA"S"	MEXICO	5236	81	107	142	9	97	18	50	33
19	TC.60 - CIT"S" X RABI"6"	MEXICO	5232	80	101	145	6	85	0	50	56
23	MEXICALI 75	MEXICO	5220	79	94	139	72	95	28	52	44
11	MEXI"S" - FG"S"	MEXICO	5205	77	102	145	24	94	53	48	33
21	COCORIT 71	MEXICO	5118	74	99	147	18	93	33	50	33
10	MEXI"S" - GTA"S"	MEXICO	5074	78	101	146	72	90	25	47	44
4	MEXI"S" -GTA"S"	MEXICO	5069	75	105	147	18	88	70	45	33
22	BEAGLE(TRITICALE)	MEXICO	4969	71	97	148	72	121	83	41	22
5	MEXI"S" - FG"S"	MEXICO	4963	76	98	145	18	90	60	39	33
8	S.0179 - S.0179 X DURUM(6)	MEXICO	4960	78	98	143	15	81	7	43	56
2	GTA"S" X 21563 - AA"S"	MEXICO	4906	83	107	150	12	94	44	49	33
12	MEXI"S" X CHAP - 21563	MEXICO	4808	78	101	147	36	91	30	52	56
24	JUPATECO 73 (B.W.)	MEXICO	4764	82	93	146	54	96	3	40	67
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	4735	75	103	148	24	80	0	41	44
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	4633	77	109	150	12	99	58	35	33
25	LOCAL CHECK		4625	80	100	142	9	96	23	40	44
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	4595	79	105	145	9	86	42	41	22
18	MEXI"S" - MACH"S"	MEXICO	4373	79	103	146	72	86	20	51	44
	SUMMARY MEANS OVER VARIETIES		5067.0	78.3	101.0	145.1	27.7	91.3	32.2	46.0	30.0
	NUMBER OF LOCATIONS FOR EACH VARIABLE		5	2	5	1	1	5	2	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		20	3	11	1	1	9	5	5	1

Table 25. REGION II. Summary for yield, agronomic and disease data for the 8th EDYT.

(Locations: Shoa, ETHIOPIA; Khartoum, SUDAN.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	100C G.W.	HELM
24	JUPATECO 73 (B.W.)	MEXICO	3946	52	97	1	0	83	33	22
1	21563-AA"S" X PG"S"	MEXICO	3332	64	104	20	0	77	34	22
22	BEAGLE(TRITICALE)	MEXICO	3283	58	109	0	0	112	36	22
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	3121	55	102	-	-	68	33	44
2	GTA"S" X 21563 - AA"S"	MEXICO	3083	69	103	35	5	77	35	33
9	GTA"S" X 21563 - AA"S"	MEXICO	3070	73	105	12	2	77	30	33
7	21563 - AA"S" X FG"S"	MEXICO	3021	60	105	12	1	79	34	22
25	LOCAL CHECK		2919	50	102	-	-	78	29	44
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	2864	50	103	-	-	71	37	44
10	MEXI"S" - MAGH"S"	MEXICO	2832	51	100	-	-	66	39	44
5	MEXI"S" - FG"S"	MEXICO	2751	50	108	0	2	70	38	56
20	MEXI"S" X CHAP - 21563	MEXICO	2714	57	103	-	4	75	41	56
8	S.0179 - S.0179 X DURUM(6)	MEXICO	2694	69	107	4	1	73	32	44
15	ERPEL"S" - RUSO	MEXICO	2666	66	107	-	-	72	35	33
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	2663	61	106	20	1	76	38	33
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	2655	74	109	10	15	73	33	44
11	MEXI"S" - FG"S"	MEXICO	2619	56	108	-	-	74	35	67
12	MEXI"S" X CHAP - 21563	MEXICO	2571	60	106	-	-	75	41	56
10	MEXI"S" - GTA"S"	MEXICO	2570	53	104	-	-	70	37	67
19	TC.60 - CIT"S" X RABI"S"	MEXICO	2515	53	99	-	-	69	40	70
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	2392	50	98	-	-	56	35	67
21	COCORIT 71	MEXICO	2310	51	90	-	-	75	40	67
4	MEXI"S" -GTA"S"	MEXICO	2199	54	102	0	5	62	35	44
23	MEXICALI 75	MEXICO	2100	40	97	-	-	67	43	56
3	MEXI"S" X CHAP - 21563	MEXICO	2091	59	103	0	0	80	43	67
	SUMMARY MEANS OVER VARIETIES		2762.2	58.4	103.4	10.2	2.0	73.9	36.2	46.6
	NUMBER OF LOCATIONS FOR EACH VARIABLE		2	1	1	1	1	2	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		8	4	4	1	1	8	4	1

Table 27. REGION IV. Summary for yield, agronomic and disease data for the 8th EDYT.

(Locations: Szeged, HUNGARY.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT	1000 G.W.
22	BEAGLE(TRITICALE)	MEXICO	9444	65	142	1	120	47
20	MEXI*S* X CHAP - 21563	MEXICO	7986	73	145	10	81	46
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	7917	74	146	4	78	45
1	21563-AA*S* X FG*S*	MEXICO	7430	74	148	5	79	42
7	21563 - AA*S* X FG*S*	MEXICO	7389	79	148	10	76	43
11	MEXI*S* - FG*S*	MEXICO	7264	72	148	11	83	45
24	JUPATECO 73 (B.W.)	MEXICO	7180	77	141	2	93	34
2	GTA*S* X 21563 - AA*S*	MEXICO	7125	71	147	39	86	36
15	ERPEL*S* - RUSO	MEXICO	7111	74	145	11	76	42
5	MEXI*S* - FG*S*	MEXICO	6958	71	149	24	81	44
21	COCORIT 71	MEXICO	6930	73	145	3	81	44
14	FG*S* - PALASTINIEN 20C.686...	MEXICO	6889	69	146	11	84	35
23	MEXICALI 75	MEXICO	6875	73	145	25	84	47
12	MEXI*S* X CHAP - 21563	MEXICO	6819	73	146	14	84	48
9	GTA*S* X 21563 - AA*S*	MEXICO	6805	71	146	13	89	36
18	MEXI*S* - MAGH*S*	MEXICO	6778	72	149	33	76	49
3	MEXI*S* X CHAP - 21563	MEXICO	6778	72	146	10	83	42
4	MEXI*S* -GTA*S*	MEXICO	6736	68	150	17	81	35
10	MEXI*S* - GTA*S*	MEXICO	6472	67	147	24	84	38
19	TC.60 - CIT*S* X RABI*S*	MEXICO	6194	70	150	5	74	42
8	S.0179 - S.0179 X DURUM(6)	MEXICO	6153	63	149	11	75	33
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	6097	75	150	19	84	40
16	PG*S* - MARTE*S* X GTA*S*	MEXICO	5625	67	150	3	70	32
13	PG*S* - MARTE*S* X GTA*S*	MEXICO	5403	60	147	12	81	32
25	LOCAL CHECK		5194	62	145	11	95	31
	SUMMARY MEANS OVER VARIETIES		6862.1	70.9	146.0	13.1	83.1	40.3
	NUMBER OF LOCATIONS FOR EACH VARIABLE		1	1	1	1	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		4	4	2	4	4	4

Table 26. REGION III. Summary for yield, agronomic and disease data for the 8th EDYT.

(Locations: Andhra Pradesh, Karnataka, Madhya Pradesh and Rajasthan, INDIA .)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.
21	COCORIT 71	MEXICO	3100	79	74	111	8	11	82	28	38
24	JUPATECO 73 (B.W.)	MEXICO	2991	82	75	112	4	18	85	0	33
7	21563 - AA"S" X FG"S"	MEXICO	2918	81	78	118	6	8	81	16	40
1	21563-AA"S" X FG"S"	MEXICO	2889	82	75	114	6	2	74	31	41
3	MEXI"S" X CHAP - 21563	MEXICO	2820	80	75	114	10	11	82	33	44
18	MEXI"S" - MAGH"S"	MEXICO	2769	73	75	113	22	21	74	35	35
15	ERPEL"S" - RUSO	MEXICO	2726	75	84	122	9	11	74	14	35
19	TC.60 - CIT"S" X RABI"S"	MEXICO	2688	80	75	111	5	8	73	0	39
5	MEXI"S" - FG"S"	MEXICO	2678	76	76	113	11	15	78	32	38
2	GTA"S" X 21563 - AA"S"	MEXICO	2660	80	81	113	8	6	78	18	36
12	MEXI"S" X CHAP - 21563	MEXICO	2636	80	76	114	9	10	76	12	42
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	2629	78	79	116	9	8	79	0	41
22	BEAGLE(TRITICALE)	MEXICO	2617	67	81	122	9	6	113	0	37
11	MEXI"S" - FG"S"	MEXICO	2588	78	75	111	16	6	80	10	40
20	MEXI"S" X CHAP - 21563	MEXICO	2586	78	73	113	13	25	79	27	41
25	LOCAL CHECK		2574	81	75	112	13	3	77	21	39
8	S.0179 - S.0179 X DURUM(6)	MEXICO	2529	76	81	119	4	10	73	17	33
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	2505	79	79	115	13	16	78	52	29
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	2450	78	80	115	14	10	78	0	36
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	2400	77	75	115	16	15	76	44	38
9	GTA"S" X 21563 - AA"S"	MEXICO	2393	78	79	116	11	9	80	15	37
10	MEXI"S" - GTA"S"	MEXICO	2326	77	74	111	31	21	75	15	35
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	2290	76	76	114	17	8	64	12	32
4	MEXI"S" -GTA"S"	MEXICO	2211	74	77	113	15	23	72	42	34
23	MEXICALI 75	MEXICO	2070	78	72	110	19	9	76	36	38
	SUMMARY MEANS OVER VARIETIES		2601.6	77.4	76.7	114.1	11.8	11.6	78.1	20.3	37.2
	NUMBER OF LOCATIONS FOR EACH VARIABLE		4	2	4	4	4	1	4	2	4
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		15	8	12	12	12	4	12	7	9

Table 28. REGION V. Summary for yield, agronomic and disease data for the 8th EDYT.

(Locations: Alentejo, PORTUGAL .)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	LEAF RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT
19	TC.60 - CIT"S" X RABI"S"	MEXICO	3950	78	139	202	0	10	0	77	12	56	39
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	3875	78	145	208	0	0	0	72	0	48	11
20	MEXI"S" X CHAP - 21563	MEXICO	3704	76	136	202	0	10	0	90	12	55	22
10	MEXI"S" - GTA"S"	MEXICO	3570	76	140	204	0	10	8	84	0	53	17
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	3563	77	140	208	0	0	4	81	12	58	56
18	MEXI"S" - MAGH"S"	MEXICO	3470	77	140	204	0	5	0	80	0	57	33
4	MEXI"S" -GTA"S"	MEXICO	3437	77	144	204	0	5	0	86	0	54	11
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	3435	78	151	208	0	0	2	83	6	47	11
21	COCORIT 71	MEXICO	3404	77	134	202	1	5	0	84	12	52	11
22	BEAGLE(TRITICALE)	MEXICO	3315	69	132	205	0	10	0	123	12	48	11
15	ERPEL"S" - RUSO	MEXICO	3314	78	149	207	0	0	0	86	0	60	39
3	MEXI"S" X CHAP - 21563	MEXICO	3281	78	139	202	1	5	4	81	12	57	11
14	PG"S" - PALASTINIEN 20C.606...	MEXICO	3269	77	138	205	10	5	0	84	6	47	11
8	S.0179 - S.0179 X DURUM(6)	MEXICO	3235	76	138	202	0	0	0	79	6	44	22
11	MEXI"S" - PG"S"	MEXICO	3181	77	139	205	0	10	0	88	6	56	22
2	GTA"S" X 21563 - AA"S"	MEXICO	3094	79	148	204	0	5	0	88	6	55	11
9	GTA"S" X 21563 - AA"S"	MEXICO	3089	79	149	205	0	10	1	87	6	52	11
1	21563-AA"S" X PG"S"	MEXICO	2910	80	146	204	0	10	0	81	12	56	11
12	MEXI"S" X CHAP - 21563	MEXICO	2884	78	139	205	0	10	0	84	6	58	11
25	LOCAL CHECK		2872	80	151	209	0	0	0	77	0	53	39
7	21563 - AA"S" X PG"S"	MEXICO	2737	79	143	203	0	5	0	83	12	58	11
23	MEXICALI 75	MEXICO	2702	76	132	201	0	5	4	85	12	55	56
5	MEXI"S" - PG"S"	MEXICO	2385	76	138	204	0	5	0	89	6	54	28
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	2209	79	148	205	0	5	0	82	12	53	33
24	JUPATECO 73 (B.W.)	MEXICO	1556	78	122	205	50	40	-	89	12	35	78
	SUMMARY MEANS OVER VARIETIES		3137.6	77.3	140.8	204.5	2.5	6.8	1.0	84.9	7.2	52.8	24.6
	NUMBER OF LOCATIONS FOR EACH VARIABLE		1	1	1	1	1	1	1	1	1	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		4	4	4	4	2	1	1	4	2	1	2

Table 29. REGION VI. Summary for yield, agronomic and disease data for the 8th EDYT.

(Locations: Laxia, CYPRUS; R.D.Sde-Gat, ISRAEL; Ramtha, JORDAN; Aleppo, SYRIA.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	1000 G.W.	BYDV
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	3199	81	102	154	74	43	47	11
21	COCORIT 71	MEXICO	2993	80	99	153	78	31	47	44
1	21563-AA"S" X PG"S"	MEXICO	2985	83	103	156	76	23	43	22
8	S.0179 - S.0179 X DURUM(6)	MEXICO	2915	82	101	151	67	4	42	22
12	MEXI"S" X CHAP - 21563	MEXICO	2890	80	102	156	75	30	49	22
7	21563 - AA"S" X PG"S"	MEXICO	2858	[illegible]	102	155	73	18	46	33
20	MEXI"S" X CHAP - 21563	MEXICO	2765	80	102	155	72	45	44	33
18	MEXI"S" - MAGH"S"	MEXICO	2718	80	103	152	67	25	46	22
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	2702	79	104	152	63	0	38	0
15	ERPEL"S" - RUSO	MEXICO	2701	81	109	156	70	8	40	22
25	LOCAL CHECK		2680	81	107	151	85	0	46	22
9	GTA"S" X 21563 - AA"S"	MEXICO	2637	80	108	153	72	51	40	44
14	PG"S" - PALASTINIEN 20C.606...	MEXICO	2628	79	101	154	75	54	42	22
19	TC.60 - CIT"S" X RABI"S"	MEXICO	2622	80	101	155	67	0	49	56
11	MEXI"S" - PG"S"	MEXICO	2588	79	103	153	79	70	42	33
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	2555	81	110	153	68	65	33	78
10	MEXI"S" - GTA"S"	MEXICO	2547	79	103	154	74	40	44	11
4	MEXI"S" -GTA"S"	MEXICO	2547	78	105	155	76	63	41	44
23	MEXICALI 75	MEXICO	2524	80	97	150	74	80	48	22
5	MEXI"S" - PG"S"	MEXICO	2483	79	105	158	75	50	44	11
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	2479	81	106	153	71	24	39	33
3	MEXI"S" X CHAP - 21563	MEXICO	2443	81	103	154	78	56	56	44
22	BEAGLE(TRITICALE)	MEXICO	2435	69	100	155	104	1	40	22
2	GTA"S" X 21563 - AA"S"	MEXICO	2308	80	108	155	76	34	41	22
24	JUPATECO 73 (B.W.)	MEXICO	2266	81	98	148	75	5	34	11
	SUMMARY MEANS OVER VARIETIES		2658.5	79.9	103.2	153.4	74.5	32.0	43.0	28.2
	NUMBER OF LOCATIONS FOR EACH VARIABLE		4	1	4	2	4	1	3	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		13	4	11	5	10	4	6	1

Table 30. REGION VII. Summary for yield, agronomic and disease data for the 8th EDYT.

(Locations: El Batan, Guanajuato, Michoacan and Sonora (2nd date). MEXICO.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.	SEPT TRIT	SCAB %
20	MEXI*S* X CHAP - 21563	MEXICO	6325	67	0	1	0	92	49	89	60
10	MEXI*S* - GTA*S*	MEXICO	5852	66	0	45	0	87	45	78	50
17	GEIER*S* - USA 0676 X JO*S*...	MEXICO	5748	65	0	2	0	87	39	67	20
23	MEXICALI 75	MEXICO	5714	59	3	14	1	89	47	78	40
25	LOCAL CHECK		5649	59	1	14	1	88	45	78	40
9	GTA*S* X 21563 - AA*S*	MEXICO	5618	73	0	15	5	94	46	44	60
14	FG*S* - PALASTINIEN 28C.686...	MEXICO	5612	64	6	9	0	85	42	33	50
11	MEXI*S* - FG*S*	MEXICO	5537	63	2	2	0	90	42	67	50
5	MEXI*S* - FG*S*	MEXICO	5417	63	2	9	1	87	45	56	30
7	21563 - AA*S* X FG*S*	MEXICO	5404	69	0	1	0	91	44	22	50
12	MEXI*S* X CHAP - 21563	MEXICO	5383	68	1	3	1	90	50	67	40
4	MEXI*S* -GTA*S*	MEXICO	5368	68	0	10	0	85	45	33	40
22	BEAGLE(TRITICALE)	MEXICO	5242	73	0	9	0	137	42	11	0
18	MEXI*S* - MAGH*S*	MEXICO	5232	66	0	9	0	83	47	56	20
6	MCA*S* X 21563-AA*S*/PG*S*...	MEXICO	5220	72	0	13	0	90	40	67	30
19	TC.60 - CIT*S* X RABI*S*	MEXICO	5228	67	1	0	6	84	38	67	50
21	COCORIT 71	MEXICO	5183	65	1	7	0	91	36	67	40
1	21563-AA*S* X FG*S*	MEXICO	5155	68	0	0	0	87	42	67	50
2	GTA*S* X 21563 - AA*S*	MEXICO	4983	73	0	0	0	94	43	67	50
13	FG*S* - MARTE*S* X GTA*S*	MEXICO	4027	73	0	3	0	86	33	33	30
16	FG*S* - MARTE*S* X GTA*S*	MEXICO	4749	68	0	1	0	75	35	67	30
15	ERPEL*S* - RUSO	MEXICO	4522	74	0	1	0	83	40	78	30
24	JUPATECO 73 (B.W.)	MEXICO	4460	67	7	50	0	100	29	56	60
3	MEXI*S* X CHAP - 21563	MEXICO	4257	68	0	3	1	90	33	67	20
8	S.0179 - S.0179 X DURUM(6)	MEXICO	4227	72	0	14	5	81	33	33	20
	SUMMARY MEANS OVER VARIETIES		5236.9	67.4	1.0	9.3	0.6	89.6	41.2	57.9	38.4
	NUMBER OF LOCATIONS FOR EACH VARIABLE		2	2	1	2	1	2	1	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		7	7	4	2	1	7	4	1	1

Table 31. REGION VIII. Summary for yield, agronomic and disease data for the 8th EDYT.

(Locations: Santiago, CHILE.)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	BYDV
22	BEAGLE(TRITICALE)	MEXICO	2932	68	76	100	20
24	JUPATECO 73 (B.W.)	MEXICO	2333	79	71	80	20
15	ERPEL"S" - RUSO	MEXICO	2244	74	70	60	20
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	2021	71	77	60	15
9	GTA"S" X 21563 - AA"S"	MEXICO	1979	77	80	65	50
2	GTA"S" X 21563 - AA"S"	MEXICO	1885	77	79	65	30
25	LOCAL CHECK		1812	73	71	65	30
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	1807	78	82	65	40
18	MEXI"S" - MAGH"S"	MEXICO	1489	73	76	60	60
1	21563-AA"S" X PG"S"	MEXICO	1479	75	71	65	30
5	MEXI"S" - PG"S"	MEXICO	1448	68	71	70	40
10	MEXI"S" - GTA"S"	MEXICO	1375	70	72	60	50
7	21563 - AA"S" X PG"S"	MEXICO	1364	74	71	65	60
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	1307	77	77	65	20
19	TC.60 - CIT"S" X RABI"S"	MEXICO	1219	69	71	70	20
12	MEXI"S" X CHAP - 21563	MEXICO	1031	71	74	75	20
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	943	68	73	65	20
20	MEXI"S" X CHAP - 21563	MEXICO	937	68	72	70	30
3	MEXI"S" X CHAP - 21563	MEXICO	927	69	72	75	40
4	MEXI"S" -GTA"S"	MEXICO	922	71	75	60	50
14	PG"S" - PALASTINIEN 20C.606...	MEXICO	901	74	70	60	80
11	MEXI"S" - PG"S"	MEXICO	849	70	73	80	70
8	S.0179 - S.0179 X DURUM(6)	MEXICO	812	70	74	70	30
21	COCORIT 71	MEXICO	786	74	72	70	50
23	MEXICALI 75	MEXICO	724	66	70	75	50
	SUMMARY MEANS OVER VARIETIES		1421.0	72.2	74.2	68.6	37.0
	NUMBER OF LOCATIONS FOR EACH VARIABLE		1	1	1	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		4	1	1	1	1

Table 32. REGION IX. Summary for yield, agronomic and disease data for the 8th EDYT.

(Location: Cape, SOUTH AFRICA .)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT
22	BEAGLE(TRITICALE)	MEXICO	2598	65
7	21563 - AA"S" X FG"S"	MEXICO	1565	77
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	1512	75
24	JUPATECO 73 (B.W.)	MEXICO	1443	77
9	GTA"S" X 21563 - AA"S"	MEXICO	1399	75
1	21563-AA"S" X FG"S"	MEXICO	1299	77
2	GTA"S" X 21563 - AA"S"	MEXICO	1263	76
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	1043	68
15	ERPEL"S" - RUSO	MEXICO	1043	73
4	MEXI"S" -GTA"S"	MEXICO	1024	71
18	MEXI"S" - MAGH"S"	MEXICO	955	73
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	947	68
11	MEXI"S" - FG"S"	MEXICO	916	68
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	876	68
3	MEXI"S" X CHAP - 21563	MEXICO	863	74
20	MEXI"S" X CHAP - 21563	MEXICO	860	73
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	765	70
12	MEXI"S" X CHAP - 21563	MEXICO	694	72
25	LOCAL CHECK		686	72
10	MEXI"S" - GTA"S"	MEXICO	659	68
5	MEXI"S" - FG"S"	MEXICO	615	69
21	COCORIT 71	MEXICO	590	69
8	S.0179 - S.0179 X DURUM(6)	MEXICO	554	67
23	MEXICALI 75	MEXICO	512	71
19	TC.60 - CIT"S" X RABI"S"	MEXICO	441	69
	SUMMARY MEANS OVER VARIETIES		1004.9	71.4
	NUMBER OF LOCATIONS FOR EACH VARIABLE		1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		4	1

Table 33.

MEAN OVER ALL LOCATIONS FOR YIELD, AGRONOMIC AND DISEASE DATA FOR THE 8TH ELITE DURUM YIELD TRIAL 1977-78.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	LEAF RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.	SEPT TRIT	SCAB %	BYDV	HELM
17	GEIER"S" - USA 0676 X JO"S"...	MEXICO	3903	76	94	136	0	0	10	3	81	19	45	52	20	16	33
1	21563-AA"S" X FG"S"	MEXICO	3847	80	94	135	0	10	6	1	80	22	43	37	50	26	22
7	21563 - AA"S" X FG"S"	MEXICO	3847	79	94	137	0	5	6	3	81	19	45	22	50	47	22
20	MEXI"S" X CHAP - 21563	MEXICO	3836	76	92	134	0	10	8	10	82	27	45	48	60	32	56
22	BEAGLE(TRITICALE)	MEXICO	3828	68	92	140	0	10	13	2	116	24	40	15	0	21	22
9	GTA"S" X 21563 - AA"S"	MEXICO	3664	78	99	136	0	10	11	5	84	21	41	29	60	47	33
15	ERPEL"S" - RUSO	MEXICO	3656	77	100	140	0	0	11	6	77	12	41	46	30	21	33
21	COCORIT 71	MEXICO	3650	75	90	133	1	5	7	6	83	26	43	37	40	47	67
11	MEXI"S" - FG"S"	MEXICO	3583	75	93	134	1	10	11	3	84	30	43	41	50	52	67
14	FG"S" - PALASTINIEN 20C.606...	MEXICO	3580	75	92	135	8	5	12	8	79	39	40	29	50	51	44
19	TC.60 - CIT"S" X RABI"S"	MEXICO	3556	76	92	133	1	10	3	4	75	3	45	54	50	38	78
24	JUPATECO 73 (B.W.)	MEXICO	3533	80	88	132	29	40	21	6	87	5	34	67	60	16	22
2	GTA"S" X 21563 - AA"S"	MEXICO	3519	78	99	135	0	5	12	4	83	27	41	37	50	26	33
10	MEXI"S" - GTA"S"	MEXICO	3513	74	92	134	0	10	35	11	79	10	41	46	50	31	67
12	MEXI"S" X CHAP - 21563	MEXICO	3499	77	93	136	1	10	10	6	82	18	47	45	40	21	56
5	MEXI"S" - FG"S"	MEXICO	3486	74	92	136	1	5	11	6	81	42	42	39	30	26	56
18	MEXI"S" - MAGH"S"	MEXICO	3459	75	93	134	0	5	23	11	75	23	44	44	20	41	44
3	MEXI"S" X CHAP - 21563	MEXICO	3437	77	93	135	1	5	7	4	83	39	46	33	20	42	67
4	MEXI"S" -GTA"S"	MEXICO	3411	74	95	135	0	5	12	9	78	48	43	26	40	47	44
8	S.0179 - S.0179 X DURUM(6)	MEXICO	3389	74	94	136	0	0	7	5	75	9	37	37	20	26	44
23	MEXICALI 75	MEXICO	3384	76	87	131	2	5	23	5	82	38	45	59	40	36	56
13	PG"S" - MARTE"S" X GTA"S"	MEXICO	3380	76	99	136	0	0	9	8	78	46	33	26	30	59	44
25	LOCAL CHECK		3361	77	95	132	1	0	11	2	85	11	41	54	40	26	44
16	PG"S" - MARTE"S" X GTA"S"	MEXICO	3352	74	94	135	0	0	11	4	69	3	37	41	30	8	67
6	MCA"S" X 21563-AA"S"/PG"S"...	MEXICO	3313	78	98	136	0	5	12	8	79	24	39	41	30	27	44
	SUMMARY MEANS OVER VARIETIES		3559.5	75.8	93.9	135.1	1.7	6.8	12.1	5.5	81.5	23.7	41.5	40.2	38.4	33.0	46.6
	NUMBER OF LOCATIONS FOR EACH VARIABLE		21	9	19	9	2	1	10	3	20	6	13	3	1	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		79	25	52	26	.	1	21	6	55	10	33	4	1	2	1