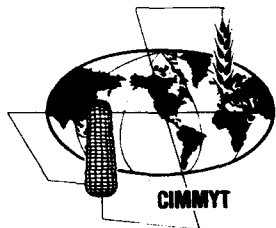




Results of the Eleventh Elite Durum Yield Trial (EDYT) 1981-82



Results of the Eleventh Elite Durum Yield Trial (EDYT) 1981-82



CENTRO INTERNACIONAL DE MEJORAMIENTO DE MAIZ Y TRIGO
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CONTENTS

	Page
Glossary	ii
Introduction	1
Variety or cross and pedigree of 11th EDYT entries	2
Summary of all locations and variables reported	3
Summary for all locations: yield, agronomic and disease data	4
Tables reporting data from individual locations	
Africa	
1. Egypt: Sohag	5
2. Kenya: Rift Valley	6
3. South Africa: Cape Province	7
4. Tunisia: Tunis	8
5. Zimbabwe: Harare	9
Asia	
6. Pakistan: Punjab	10
Europe	
7. Italy: Rome	11
8. Portugal: Elvas	12
9. Spain: Cadiz	13
10. Spain: Madrid	14
11. Yugoslavia: Macedonia	15
Middle East	
12. Cyprus: Laxia	16
13. Israel: R.D. S. de-Gat	17
14. Jordan	18
15. Syria: Aleppo	19
16. Turkey: Izmir	20
North America	
17. Canada: Ontario	21
18. Mexico: Estado de Mexico	22
19. Mexico: Guanajuato	23
20. Mexico: Sonora	24
Oceania	
21. New Zealand: Manawatu	25
South America	
22. Bolivia: Cochabamba	26
23. Bolivia: Santa Cruz	27
24. Chile: Santiago	28
25. Ecuador: Quito, Pichincha	29

Regional summaries

I. Mexico	30
II. South America	31
III. Europe	32
IV. Africa (Tunisia, Egypt)	33
V. Africa (Kenya, Zimbabwe, South Africa)	34
VI. Middle East	35

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

TABLE ABBREVIATION	VARIABLE NAME	NOMBRE DE LA VARIABLE	NOM DE LA VARIABLE
ALT BLT	Alternaria blight (0-9 scale)	Tizón por Alternaria (escala 0-9)	Alternaria (échelle 0-9)
ANT DMGE	Ant Damage percentage	Porcentaje de daño de hormigas	Dégâts dus aux fourmis en pourcentage
APHD DMGE	Aphid damage percentage	Porcentaje de daño de áfidos	Dégâts dus aux pucerons en pourcentage
ARMY WORM	Army worm percentage	Porcentaje de gusano cogollero	Chenille soldat en pourcentage
BACT STRP	Bacterial stripe (0-9 scale)	Rayado bacteriano (escala 0-9)	Rayée bacterienne (échelle 0-9)
BACT B	Bacterial blight (0-9 scale)	Tizón bacteriano (escala 0-9)	Tache bacterienne (échelle 0-9)
BARL S	Barley stripe (0-9 scale)	Rayado de la cebada (escala 0-9)	Moucheture de l'orge (échelle 0-9)
BIRD DMGE	Bird damage percentage	Porcentaje de daño de pájaros	Dégâts dus aux oiseaux en pourcentage
BYD	Barley yellow dwarf (0-9 scale)	Enanismo amarillo de la cebada (escala 0-9)	Virose jaune de l'orge (échelle 0-9)
CHECK MARK	Check mark	Marca	Signal
COVD SMUT	Covered smut percentage	Porcentaje de carbón cubierto	Charbon couvert en pourcentage
EARS/M ²	Ears per square meter	Espigas o mazorcas por metro cuadrado	Epis par mètre ²
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activité du α amylase (en 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 floraison
FRST DMGE	Frost damage percentage	Porcentaje de daño por heladas	Dégâts par la gelée en pourcentage
FUS N	Fusarium nivale (0-9 scale)	Moho niveo (escala 0-9)	Moisissure de la neige (échelle 0-9)
FUS NIV	Fusarium nivale spot	Mancha foliar (Fusarium nivale)	Tache de la feuille (Fusarium nivale)
FUS WILT	Fusarium wilt percentage	Porcentaje de marchitez por Fusarium	Fusarium en pourcentage
GERM %/o	Germination percentage	Porcentaje de germinación	Germination en pourcentage
HAIL DMGE	Hail damage percentage	Porcentaje de daño por granizo	Dégâts dus à la grêle en pourcentage
HELM	Helminthosporium (0-9 scale)	Helminthosporium (escala 0-9)	Helminthosporium (échelle 0-9)
HELM TERES	Leaf spot Helminthosporium teres	Mancha foliar (Helminthosporium teres)	Tache de la feuille (Helminthosporium teres)
KERN APP	Kernel appearance	Apariencia del grano	Apparence du grain
LEAF FIRE	Leaf fire (0-9 scale)	Tizón foliar (escala 0-9)	Sécheresse des feuilles (échelle 0-9)
LEAF RUST	Leaf rust (Cobb scale)	Roya de la hoja (escala de Cobb)	Rouille brune (échelle de Cobb)
LEAF RUST/P. HORDEI	Barley leaf rust (Puccinia hordei)	Roya de la hoja (cebada)	Rouille brune de l'orge
LODG %/o	Lodging percentage	Porcentaje de acame	Versé en pourcentage
LSE SMUT	Loose smut percentage	Porcentaje de carbón volador	Charbon nu en pourcentage
MAT DAYS	Number days to maturity	Número de días a la madurez	Nombre de jours à la maturation
MST %/o	Moisture percentage	Porcentaje de humedad	Humidité en pourcentage
NECK BRK	Neck break percentage	Porcentaje de rotura del cuello	Cassure du pédoncule en pourcentage
NET BLOT	Net blotch (0-9 scale)	Mancha reticular (escala 0-9)	Helminthosporium de l'orge (échelle 0-9)
PHYR TRIT	Pyrenophora tritici-repentis leaf spot	Mancha foliar (Pyrenophora tritici-repentis)	Tache de la feuille (Pyrenophora tritici-repentis)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (tiges/mètre ²)
PLNT HT	Height (cm)	Altura (cm)	Hauteur (cm)
PLNT WT	Plant weight (grams)	Peso de la planta (gramos)	Poids de la plante (grames)
POWD	Powdery mildew (0-9 scale)	Mildíu polvoriento (escala 0-9)	Oidium (échelle 0-9)
PROT %/o	Protein percentage	Porcentaje de proteína	Protéine en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Putréfaction du maïs en pourcentage
SCAB %/o	Scab percentage	Porcentaje de roña	Fusarium de l'épi en pourcentage
SCLD	Scald (0-9 scale)	Porcentaje de escaldadura (escala 0-9)	Rhynchosporium (échelle 0-9)
SDMT INDX	Sedimentation index (cc)	Índice de sedimentación (cc)	Indice de sédimentation (cc)
SEED TYPE	Seed type (L=large, M=medium, S=small)	Tipo de semilla (L=grande, M=mediano, S=pequeño)	Type de grain (L=large, M=moyen, S=petit)
SEPT NODO	Septoria nodorum (0-9 scale)	Septoria nodorum (escala 0-9)	Septoria nodorum (échelle 0-9)
SEPT SPP.	Septoria spp. (0-9 scale)	Septoria spp. (escala 0-9)	Septoria spp. (échelle 0-9)
SEPT TRIT	Septoria tritici (0-9 scale)	Septoria tritici (escala 0-9)	Septoria tritici (échelle 0-9)
SHTR HEAD	Shattering head (%/o)	Porcentaje de desgrane	Chute de grains en pourcentage
SMLS SMUT	Semi-loose smut percentage	Porcentaje de carbón semi-volador	Charbon semi-nu en pourcentage
SPOT BLOT	Spot blotch (0-9 scale)	Tizón de la hoja (escala 0-9)	Tache de la feuille (échelle 0-9)
SPOT BLOTCH/HELM SATV	Spot blotch (0-9 scale)	Tizón de la hoja (escala 0-9)	Tache de la feuille (échelle 0-9)
STEM RST	Stem rust (Cobb scale)	Roya del tallo (escala de Cobb)	Rouille noire (échelle de Cobb)
STRP RT.H	Stripe rust (head) percentage	Porcentaje de roya lineal (espiga)	Rouille jaune sur l'épi en pourcentage
STRP RT. L	Stripe rust (leaf) (Cobb scale)	Roya lineal (hoja) (escala de Cobb)	Rouille jaune sur feuilles (échelle de Cobb)
TAN S	Tan spot (0-9 scale)	Mancha de cobre (escala 0-9)	Tache de cuivre (échelle 0-9)
TEST WT	Test weight (kg/hl)	Peso hectolítrico (kg/hl)	Poids spécifique (kg/hl)
1000 G.W.	1000 grain weight (grams)	Peso de 1000 granos (gramos)	Poids de 1000 grains (grames)
YELL BERR	Yellow berry percentage	Porcentaje de panza blanca	Mitadinage en pourcentage
YIELD KG/HA	Yield kg/ha	Rendimiento kg/ha	Rendement kg/ha

RESULTS OF THE 11TH ELITE DURUM YIELD TRIAL

(EDYT) 1981 - 82

The 11th Elite Durum Yield Trial (EDYT) was sent in September 1981, to be grown by cooperators in their spring season of 1982. Forty nurseries went to cooperators in 33 countries. The 30 advanced lines and varieties included in the nursery had been chosen from among CIMMYT's best materials. All had been grown and observed under a high yield environment with pressure from major diseases on the CIANO Experiment Station in the Yaqui Valley in northwest Mexico. The selected lines thus comprised a collection of the world's best lines or varieties, which cooperators could compare under the specific conditions of their own sites. Seed for this international nursery was multiplied in plots on the CIANO Experiment Station, and the seed was cleaned and treated with insecticide and organic fungicide before shipment.

Instructions accompanied the mailing of seed to each cooperator; the plot sizes, replications and similar procedures were specified. It is recommended that each plot should consist of six 3.0 m rows planted 30 cm apart and that each line should be grown in three replications. However, plot configuration may differ to conform to local equipment. A field book accompanied each nursery set, providing a format for recording data desired by CIMMYT.

Twenty-five of the cooperators receiving the 11th EDYT returned field books reporting performance at their location in time to be included in this report. In receiving and processing the data, CIMMYT assumes that instructions were carried out and that accurate results were reported. We cannot, however, attest to the rigor with which the trials were grown and results were obtained.

The choice of variables measured and the data returned rests with the individual cooperator. We have included in the summary table all measures of all variables reported to us. Some variables are presented for which a limited number of observations were made. The user of these tables should be aware of the importance of the number of locations and the number of observations in interpreting data on a given variable; the summary table for international results specifies both for the guidance of the reader.

Presentation of Results

So that data in this report will be of optimal use to the reader, we present the results in three forms:

1. All data provided from *each trial site* are reported in a single table for that site. Each reports latitude and longitude coordinates as supplied by the cooperator. With these points, the reader can determine an exact location and, if desired, relate to it environmental data from other sources.
2. *Regional summaries* of means have been computed from data aggregated from individual sites in several countries grouped by geographic criteria. Each regional table lists the names of all countries and locations from which site data were drawn for the table.
3. *Two international summaries* presenting (a) the variables for which data were reported, by trial site, and (b) the means computed for all sites.

Statistical coefficients^{1/} accompany the trial site data to assist the reader in evaluating and interpreting the data. While we assume accuracy in the data supplied to us, we encourage users of this report to approach specific elements with the reasonable skepticism of their own standard of proof.

Feedback

Feedback of two kinds from cooperators is vital to the quality of this and other CIMMYT international nursery reports: First, the prompt return of carefully recorded data from each and every trial site; second, identification of errors that become part of our cooperators' station files—location coordinates, etc. We ask for feedback of both kinds.

^{1/} Details of the statistical analyses (by a computer program called NAP) may be obtained from the Computer Services unit at CIMMYT. The procedure was described in CIMMYT Information Bulletin 40, 13th IBWSN for 1976-77.

Variety or cross and pedigree of 11th EDYT entries

Entry No.	Variety or Cross and Pedigree
1	CR"S" - GS"S" D-28980-28Y-13M-5Y-1M-0Y-0K-1B
2	YAV "S" CM-9799-126M-1M-3Y-0Y-1B
3	WIN "S" CM-18577-11Y-6Y-2Y-0Y
4	CHI "S" CD-1314-A-1Y-2Y
5	ROK "S" CD-1895-12Y-1Y-8B-0Y
6	ROK "S" CD-1895-12Y-0Y-2E-3B-0Y
7	(RABI"S"/GLL"S" X LDS-RL3601) FG"S" CD-7455-4Y-1M-0Y
8	ENTE "S" - MEXI "S" CD-8153-12M-3Y-4M-1Y-0M
9	ERPEL "S" - RUSO CD-10437-13M-1Y-1M-1Y-0M
10	LDS MUT-TEAL "S" CD-12427-4Y-2M-2Y-4M-1Y-0M
11	TEAL "S"-WIN "S" X GAD "S" CD-16467-A-11M-4Y-1M-1Y-1M-0Y
12	SWAN "S" CD-16707-E-1M-2Y-5M-0Y
13	GTA "S"-RABI"S" X USA IV718/SCO "S" CD-16906-H-5M-2Y-7M-0Y
14	FUL "S"-FG"S"/OYCA"S" X RUFF"S" - FG"S" CD-17305-A-5M-1Y-1M-0Y
15	FUL "S"-FG"S"/OYCA"S" X RUFF"S" - FG"S" CD-17305-A-5M-4Y-1M-0Y
16	FUL "S"-FG"S"/OYCA"S" X RUFF"S" - FG"S" CD-17305-A-5M-4Y-3M-0Y
17	YEL "S"/RABI"S"-COCOBAS 10 X CH67-JO"S" CD-18303-13Y-3M-1Y-0M
18	FIRE "S" CD-19608-A-3Y-1M-0Y
19	GUIL"S"-SNIPE"S" X GDO VZ 449 CD-19711-D-1Y-3M-0Y
20	SHWA"S" - YAV"S" CD-20626-5M-2Y-1M-0Y
21	YEL "S"-SAPI"S"/BD1814XBD1708-BD1543 CD-22014-A-3Y-1Y-3M-0Y
22	RUFF"S"-FG"S" X MEXI 75/SHWA"S" CD-22344-C-6M-4Y-2M-0Y
23	ERP"S"-GS"S"XBOY"S" CD-25043-A-1Y-3M-0Y
24	[(DURUM46XBD1548-N262.B/GAD"S")FUL"S"] BOY"S" CD-25395-A-2Y-5M-0Y
25	[(DURUM46XBD1548-N262.B/GAD"S")FUL"S"] BOY"S" CD-25395-A-3Y-1M-0Y
26	MEXICALI 75
27	YAVAROS 79
28	CIANO 79
29	CANANEA 79
30	LOCAL CHECK

Summary of all locations and variables reported

TABLE	CONTINENT	COUNTRY	CITY	VARIABLES INCLUDED*														
1	AFRICA	EGYPT	SOHAG	1	3	4	9	13										
2	AFRICA	KENYA	RIFT VALLEY	1	2	8												
3	AFRICA	SOUTH AFRICA	CAPE PROVINCE	1	2	7	9											
4	AFRICA	TUNISIA	TUNIS	1	3	9												
5	AFRICA	ZIMBABWE	HARARE	1	2	9	56	61										
6	ASIA	PAKISTAN	PUNJAB	1	2	3	4	5	7	9	10	13						
7	EUROPE	ITALY	ROME	1	9	13												
8	EUROPE	PORTUGAL	ELVAS	1	2	3	4	9	10									
9	EUROPE	SPAIN	CADIZ	1	2	3	9											
10	EUROPE	SPAIN	MADRID	1	2	3	4	9	61	77								
11	EUROPE	YUGOSLAVIA	MACEDONIA	1	2	3	4	9	13									
12	MIDDLE EAST	CYPRUS	LAXIA	1	3	9												
13	MIDDLE EAST	ISRAEL	R. D. SDE-GAT	1	2	3	9	13										
14	MIDDLE EAST	JORDAN		1	9													
15	MIDDLE EAST	SYRIA	ALEPPD	1	9													
16	MIDDLE EAST	TURKEY	IZMIR	1														
17	NORTH AMERICA	CANADA	ONTARIO	1	9	61												
18	NORTH AMERICA	MEXICO	EDO DE MEXICO	1	2	3	9	13										
19	NORTH AMERICA	MEXICO	QUANAJUATO	1	3	4	5	9										
20	NORTH AMERICA	MEXICO	SONORA	1	2	3	7	9	13									
21	OCEANIA	NEW ZEALAND	MANAWATU	1	3	9	77											
22	SOUTH AMERICA	BOLIVIA	COCHABAMBA	1	3	4	9	62										
23	SOUTH AMERICA	BOLIVIA	SANTA CRUZ	1	3	4	7	8	9	10								
24	SOUTH AMERICA	CHILE	SANTIAGO	1	2	5	7	8	9									
25	SOUTH AMERICA	ECUADOR	QUITO, PICHINCHA	3	5	49												

*VARIABLE IDENTIFICATIONS

1	YIELD KG/HA	2	TEST	WT	3	FLOW	DAYS	4	MAT	DAYS	5	STRP	RT. L	7	LEAF	RUST
8	STEM RUST	9	PLNT	HT	10	LDDG	%	13	1000	G. W.	49	FUS	GRAM	56	MOIST	%
61	POW M 0-9	62	SEP T	0-9	77	BYDV	0-9									

Summary for all locations: yield, agronomic and disease data

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.	LEAF L RUST	STEM RUST	PLNT HT	LODG %	1000 G.W.	FUS GRAM	MOIST %	POW M 0-9	SEP T 0-9	BYDV 0-9
29	CANANEA 79	MEXICO	5042	65	95	167	6	4	0	115	24	39	0	9	0	0	4
30	LOCAL CHECK		4999	78	101	170	2	4	15	87	38	48	0	9	2	3	3
5	ROK"S"	MEXICO	4787	75	96	166	1	3	26	79	11	47	1	9	2	2	4
28	CIANO 79	MEXICO	4742	76	100	169	20	7	5	84	37	35	0	10	2	1	4
4	CHI"S"	MEXICO	4692	77	101	168	1	5	29	85	28	49	1	10	6	1	3
6	ROK"S"	MEXICO	4649	75	105	169	2	5	32	82	7	44	1	9	4	2	3
3	WIN"S"	MEXICO	4481	76	101	168	0	8	37	83	19	46	5	9	4	1	3
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	4478	77	104	168	0	2	18	81	19	49	0	9	4	2	4
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	4464	75	106	169	0	2	39	83	33	43	1	9	4	2	3
24	MEXICALI 75	MEXICO	4399	76	98	166	13	2	24	82	14	50	1	10	1	1	4
9	ERPEL"S"-RUSO	MEXICO	4381	76	109	170	1	7	8	82	10	48	1	9	4	2	3
12	SWAN"S"	MEXICO	4360	78	103	168	0	5	25	81	6	47	1	9	4	2	3
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	4322	75	109	170	2	2	24	85	7	40	1	9	5	1	3
8	ENTE"S"-MEXI"S"	MEXICO	4256	73	107	169	4	3	20	87	25	42	1	9	3	3	4
23	ERP"S"-GS"S" X BOY"S"	MEXICO	4249	74	109	171	8	13	16	86	32	45	0	10	4	2	3
20	SHWA"S"-YAV"S"	MEXICO	4225	76	105	171	0	8	21	80	24	42	1	9	4	2	3
18	FIRE"S"	MEXICO	4225	75	109	176	1	8	29	81	17	46	1	9	3	2	3
27	YAVAROS 79	MEXICO	4199	78	104	169	1	4	16	81	12	46	0	9	2	1	4
2	YAV"S"	MEXICO	4167	79	105	170	1	2	6	82	8	47	0	10	3	1	3
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	4018	74	104	169	8	9	45	79	26	49	0	9	5	1	3
10	LDS MUT-TEAL"S"	MEXICO	3997	75	104	167	1	2	3	76	12	41	0	9	1	2	3
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	3974	73	111	172	4	4	17	78	15	37	5	9	5	1	3
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3968	78	106	170	1	5	17	75	8	47	5	9	2	0	4
7	(RABI"S"/QLL"S" X LDS-RL360...	MEXICO	3897	76	103	169	4	7	27	85	24	48	0	9	4	2	4
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3874	78	106	169	1	7	25	80	20	51	1	9	2	2	3
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3847	76	106	170	3	7	8	79	9	50	1	9	3	1	4
13	QTA"S"-RABI"S" X USAIV718/S...	MEXICO	3703	73	103	166	0	1	68	78	40	50	1	8	4	3	4
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3662	79	107	169	1	9	18	78	30	49	1	9	2	2	3
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	3319	75	110	172	0	3	14	76	9	44	1	10	4	2	3
1	CR"S"-GS"S"	MEXICO	3313	73	111	174	0	2	20	87	11	47	0	10	3	3	3
SUMMARY MEANS OVER VARIETIES			4222.9	75.4	104.6	169.3	2.8	4.9	21.7	82.6	19.2	45.6	1.0	9.2	3.2	1.7	3.1
NUMBER OF LOCATIONS FOR EACH VARIABLE			24	12	16	8	4	5	3	22	3	7	1	1	3	1	2
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			70	28	40	21	7	8	4	50	9	19	1	1	5	3	4

TABLE 1 AFRICA

EGYPT

SOHAG

SHANDAWEEL

M. M. SADEK

LATITUDE 026 36'N

DATE PLANTED

11/25/81

NITROGEN

APPLIED

LONGITUDE 031 40'E

DATE HARVESTED

5/20/82

PHOSPHORUS

APPLIED

ELEVATION 0021 M. ABOVE S. L.

AMOUNT OF MOISTURE

-- MM

POTASSIUM

--

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

NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.

LOCAL CHECK: 80"S"-GTA"S"

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G. W.
23	ERP"S"-GS"S" X BOY"S"	MEXICO	7700	98	150	110	48
27	YAVAROS 79	MEXICO	7483	93	150	97	26
4	CHI"S"	MEXICO	7300	93	149	105	52
5	ROK"S"	MEXICO	7300	85	147	90	52
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	7250	93	149	106	54
9	ERPEL"S"-RUSO	MEXICO	7017	98	147	92	53
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	6983	94	150	95	52
10	LDS MUT-TEAL"S"	MEXICO	6933	96	149	85	43
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	6900	96	150	100	52
20	SHWA"S"-YAV"S"	MEXICO	6833	94	150	100	43
3	WIN"S"	MEXICO	6767	90	149	90	45
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	6750	92	150	90	49
29	CANANEA 79	MEXICO	6533	92	155	128	38
6	ROK"S"	MEXICO	6450	98	149	106	44
12	SWAN"S"	MEXICO	6450	89	149	100	51
8	ENTE"S"-MEXI"S"	MEXICO	6433	98	147	100	46
18	FIRE"S"	MEXICO	6367	96	154	90	53
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	6300	96	154	110	45
26	MEXICALI 75	MEXICO	6300	109	150	90	53
2	YAV"S"	MEXICO	6267	94	152	108	41
28	CIANO 79	MEXICO	6200	88	154	105	38
30	LOCAL CHECK		6200	93	157	110	50
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	6033	87	152	100	52
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	5900	98	152	90	54
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	5817	97	150	95	59
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	5667	88	149	90	54
24	((DURUM46 X BD1548-N262. B/Q...	MEXICO	5300	99	149	105	42
1	CR"S"-GS"S"	MEXICO	5300	100	157	112	44
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	5283	85	147	90	54
25	((DURUM46 X BD1548-N262. B/Q...	MEXICO	4767	103	155	90	38

GRAND MEAN	6426.1	94.4	150.7	99.3	47.5
STANDARD ERROR OF GRAND MEAN	118.8				
COEFFICIENT OF VARIATION AS PC	17.5				
LSD VARIETY MEANS 5 PC	1841.4				

CORRELATIONS

YIELD KG/HA					
FLOW DAYS	-0.16				
MAT DAYS	-0.39	0.19			
PLNT HT	0.06	0.01	0.47		
1000 G. W.	-0.02	-0.07	-0.29	-0.32	

NJORO

NATIONAL P. B. S.

LATITUDE 000 00'S

DATE PLANTED 5/23/82

NITROGEN APPLIED

LONGITUDE 036 00'E

DATE HARVESTED 10/13/82

PHOSPHORUS APPLIED

ELEVATION 2165 M. ABOVE S. L.

AMOUNT OF MOISTURE 412 MM

POTASSIUM --

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 SERIOUS DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.
 LOCAL CHECK: K. NJINOVA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	STEM RUST
29	CANANEA 79	MEXICO	5775	47	0
28	CIANO 79	MEXICO	5463	58	TS
30	LOCAL CHECK		4275	61	TS-5S
10	LDS MUT-TEAL"S"	MEXICO	3988	60	5S
5	ROK"S"	MEXICO	3429	51	70S
6	ROK"S"	MEXICO	3292	51	80S
26	MEXICALI 75	MEXICO	2850	53	70S
20	SHWA"S"-YAV"S"	MEXICO	2817	54	40S
23	ERP"S"-GS"S" X BOY"S"	MEXICO	2742	54	5S
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2713	59	5S
4	CHI"S"	MEXICO	2663	50	80S
27	YAVAROS 79	MEXICO	2633	51	40S
19	GUIL"S"-SNIPE"S" X QDD VZ 449	MEXICO	2625	53	60S
9	ERPEL"S"-RUSO	MEXICO	2617	56	20S
3	WIN"S"	MEXICO	2554	51	80S
8	ENTE"S"-MEXI"S"	MEXICO	2546	53	50S
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	2525	53	70S
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	2525	59	5S
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	2500	57	40S
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2483	59	5S
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2417	58	10S
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	2308	54	30S
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	2279	50	70S
2	YAV"S"	MEXICO	2279	49	10S
18	FIRE"S"	MEXICO	2171	54	50S
12	SWAN"S"	MEXICO	2088	55	70S
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	2029	48	50S
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	1925	49	80S
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	1650	51	60S
1	CR"S"-GS"S"	MEXICO	771	38	60S

GRAND MEAN 2771.9 53.1 40.6
 STANDARD ERROR OF GRAND MEAN
 COEFFICIENT OF VARIATION AS PC
 LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD KG/HA
 TEST WT 0.34
 STEM RUST -0.46 -0.53

CRADOCK E. S.

R. DE V. PIENAAR

LATITUDE 32 08'S

DATE PLANTED 7/22/82

NITROGEN APPLIED

LONGITUDE 25 38'E

DATE HARVESTED 12/16/82

PHOSPHORUS --

ELEVATION 660 M. ABOVE S. L.

AMOUNT OF MOISTURE 447 MM

POTASSIUM --

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

SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.

SLIGHT BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. CHEMICAL CONTROL OF WEEDS.

WEATHER NORMAL. LOCAL CHECK: D6962(FARGO)

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	LEAF RUST	PLNT HT
6	ROK"S"	MEXICO	4666	80	10S	70
4	CHI"S"	MEXICO	4336	79	15S	70
3	WIN"S"	MEXICO	4336	81	10MS	60
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	4218	79	5S	75
5	ROK"S"	MEXICO	4110	79	10S	60
30	LOCAL CHECK		4078	80	15S	65
9	ERPEL"S"-RUSD	MEXICO	4012	81	30MS	75
29	CANANEA 79	MEXICO	3848	68	15MS	65
2	YAV"S"	MEXICO	3784	81	5MS	65
27	YAVARDS 79	MEXICO	3730	80	10MR	60
20	SHWA"S"-YAV"S"	MEXICO	3714	82	10MR	65
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	3570	80	10MR-MS	75
10	LDS MUT-TEAL"S"	MEXICO	3566	81	10MR	60
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	3530	80	10MR	60
28	CIANO 79	MEXICO	3470	78	15MS	60
23	ERP"S"-GS"S" X BOY"S"	MEXICO	3454	78	15MS	70
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3407	82	5MS	60
12	SWAN"S"	MEXICO	3317	80	10MR-MS	65
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	3253	81	20MS	65
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	3116	80	10MS	65
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3108	82	5MS	65
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3058	83	7MS	65
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3007	82	5MS	65
18	FIRE"S"	MEXICO	2851	77	10MS	60
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	2818	79	15S	70
8	ENTE"S"-MEXI"S"	MEXICO	2764	73	10MS	75
1	CR"S"-GS"S"	MEXICO	2751	79	5S	65
26	MEXICALI 75	MEXICO	2523	78	10S	65
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	2492	79	10MR	60
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	2140	81	10MS	60

GRAND MEAN	3434.3	79.4	8.3	65.3
STANDARD ERROR OF GRAND MEAN	69.5			
COEFFICIENT OF VARIATION AS PC	19.2			
LSD VARIETY MEANS 5 PC	1077.5			

CORRELATIONS

YIELD KG/HA				
TEST WT	0.03			
LEAF RUST	0.25	-0.25		
PLNT HT	0.21	-0.18	0.37	

TABLE 4 AFRICA

TUNISIA

TUNIS

BEJA

ACPP/INRAT

LATITUDE 036 44'N

DATE PLANTED 11/25/81

NITROGEN APPLIED

LONGITUDE 009 08'E

DATE HARVESTED --/--/--

PHOSPHORUS APPLIED

ELEVATION 0150 M. ABOVE S. L.

AMOUNT OF MOISTURE 609 MM

POTASSIUM --

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

NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.

NEGLIGIBLE BIRD DAMAGE. MECHANICAL CONTROL OF WEEDS. HAND WEEDING.

LOCAL CHECK: KARIM

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
29	CANANEA 79	MEXICO	6975	88	110
30	LOCAL CHECK		6257	91	85
28	CIANO 79	MEXICO	6079	91	95
19	GUIL"S"-SNIPE"S" X GDD VZ 449	MEXICO	5792	100	95
9	ERPEL"S"-RUSO	MEXICO	5756	104	85
8	ENTE"S"-MEXI"S"	MEXICO	5699	102	100
6	ROK"S"	MEXICO	5645	102	95
3	WIN"S"	MEXICO	5616	95	95
11	TEAL"S"-WIN"S" X QAD"S"	MEXICO	5539	102	85
24	((DURUM46 X BD1548-N262. B/G...)	MEXICO	5509	102	100
26	MEXICALI 75	MEXICO	5443	91	95
4	CHI"S"	MEXICO	5337	97	95
12	SWAN"S"	MEXICO	5152	97	85
13	QTA"S"-RABI"S" X USAIV718/S...	MEXICO	4911	97	85
20	SHWA"S"-YAV"S"	MEXICO	4903	100	90
5	ROK"S"	MEXICO	4903	91	75
18	FIRE"S"	MEXICO	4831	107	95
25	((DURUM46 X BD1548-N262. B/G...)	MEXICO	4792	104	85
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4775	102	85
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	4731	100	90
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4723	102	75
1	CR"S"-OS"S"	MEXICO	4492	106	95
2	YAV"S"	MEXICO	4480	102	85
7	(RABI"S"/QLL"S" X LDS-RL360...	MEXICO	4415	100	95
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	4391	100	80
23	ERP"S"-OS"S" X BOY"S"	MEXICO	4372	102	95
27	YAVAROS 79	MEXICO	4336	100	90
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4164	102	80
10	LDS MUT-TEAL"S"	MEXICO	4104	100	75
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	3756	108	80

GRAND MEAN 5062.5 99.5 89.2
 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 0.58 -0.20

GWEBI

C. J. J. BADENHORST ET AL

LATITUDE 017 48'S

DATE PLANTED

5/20/82

NITROGEN

APPLIED

LONGITUDE 031 15'E

DATE HARVESTED

11/ 1/82

PHOSPHORUS

APPLIED

ELEVATION 1486 M. ABOVE S. L.

AMOUNT OF MOISTURE

717 MM

POTASSIUM

APPLIED

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

NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.

NEGLIGIBLE BIRD DAMAGE. LOCAL CHECK: SANYATI

IT WAS A RATAER COOL WINTER WITHOLM FROST

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	PLNT HT	MOIST %	POW M 0-9
5	ROK"S"	MEXICO	11600	77	95	9	1
26	MEXICALI 75	MEXICO	11373	79	100	10	1
2	YAV"S"	MEXICO	11013	82	100	10	5
4	CHI"S"	MEXICO	10853	80	105	10	8
3	WIN"S"	MEXICO	10080	78	100	9	8
12	SWAN"S"	MEXICO	10067	81	100	9	7
27	YAVAROS 79	MEXICO	9747	81	95	9	2
23	ERP"S"-GS"S" X BOY"S"	MEXICO	9720	75	105	10	7
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	9693	78	95	9	7
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	9667	82	85	9	1
8	ENTE"S"-MEXI"S"	MEXICO	9667	76	100	9	5
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	9547	81	90	9	2
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	9547	70	90	9	9
9	ERPEL"S"-RUSD	MEXICO	9520	73	90	9	9
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	9387	78	100	9	6
20	SHWA"S"-YAV"S"	MEXICO	9280	78	80	9	-
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	9200	82	90	9	1
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	9187	72	100	9	8
30	LOCAL CHECK		8973	77	65	9	-
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	8893	77	90	8	8
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	8720	75	100	9	8
6	ROK"S"	MEXICO	8720	76	85	9	7
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	8627	75	85	9	7
28	CIANO 79	MEXICO	8373	75	100	10	0
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	8333	73	95	9	8
10	LDS MUT-TEAL"S"	MEXICO	8160	77	90	9	-
29	CANANEA 79	MEXICO	7933	67	120	9	0
18	FIRE"S"	MEXICO	7880	75	95	9	7
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	7773	75	105	10	9
1	CR"S"-GS"S"	MEXICO	6840	69	110	10	5

GRAND MEAN	9279.1	76.4	95.3	9.2	5.4
STANDARD ERROR OF GRAND MEAN	141.9	0.0			
COEFFICIENT OF VARIATION AS PC	14.5	0.0			
LSD VARIETY MEANS 5 PC	2200.8	0.0			

CORRELATIONS

YIELD KG/HA					
TEST WT	0.60				
PLNT HT	-0.07	-0.35			
MOIST %	0.10	-0.02	0.51		
POW M 0-9	-0.17	-0.27	-0.08	-0.16	

TABLE 6 ASIA

PAKISTAN

PUNJAB

NATIONAL AGRC. RES. CENTER
CEREAL STAFF

LATITUDE	033 39'N	DATE PLANTED	11/ 3/81	NITROGEN	APPLIED
LONGITUDE	073 5'E	DATE HARVESTED	5/24/82	PHOSPHORUS	APPLIED
ELEVATION	+00683 M. ABOVE S. L.	AMOUNT OF MOISTURE	478 MM	POTASSIUM	---

EARLY SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
 MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE.
 SERIOUS WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF INSECTS.
 HIGH RAINFALL & WIND STORMS, WINTER LATE & PROLONGED

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD TEST KG/HA WT	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	PLNT HT	LODG %	1000 G. W.	
30	LOCAL CHECK		4044	69	143	184	10MS	-	112	98	34
29	CANANEA 79	MEXICO	3807	54	132	185	5R	-	112	50	22
26	MEXICALI 75	MEXICO	3170	64	126	185	T-20MS-S	5R	94	15	35
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	3081	66	145	188	5R-TMR	-	98	27	40
4	CHI"S"	MEXICO	3037	63	146	188	20R-5MR	5R	103	58	28
27	YAVAROS 79	MEXICO	2992	70	146	184	10R	20R	96	5	36
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	2711	63	149	188	10R-TMR	-	99	17	30
12	SWAN"S"	MEXICO	2652	66	146	189	-	-	97	0	31
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	2622	59	149	192	10R-MR	TMR	92	22	31
3	WIN"S"	MEXICO	2578	59	139	190	-	0	100	38	30
5	ROK"S"	MEXICO	2444	59	134	187	10R	5R	89	2	30
20	SHWA"S"-YAV"S"	MEXICO	2429	63	149	190	-	0	97	40	25
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	2370	61	153	191	10MR	0	96	3	26
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	2355	61	146	189	-	5R	99	21	38
2	YAV"S"	MEXICO	2341	70	150	188	10R	0	92	1	34
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	2326	58	144	188	10R	5R	95	6	31
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2311	72	151	187	20R	10R	96	0	35
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	2311	62	141	190	5R-10MR	0	101	53	30
28	CIANO 79	MEXICO	2281	59	140	188	30S-20MR	TMS	100	83	22
6	ROK"S"	MEXICO	2237	59	153	190	20R	10R	94	5	36
8	ENTE"S"-MEXI"S"	MEXICO	2207	56	149	188	5R	0	96	35	25
10	LDS MUT-TEAL"S"	MEXICO	2134	51	144	177	5R	-	93	17	23
1	CR"S"-GS"S"	MEXICO	2059	62	155	191	-	-	108	7	32
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2015	63	151	189	20R	20R	90	5	29
18	FIRE"S"	MEXICO	2000	64	155	190	TR-5M	0	100	0	27
23	ERP"S"-GS"S" X BOY"S"	MEXICO	1941	54	153	189	10R-MR	-	101	73	32
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1837	69	152	189	20R	5R	92	23	35
9	ERPEL"S"-RUSO	MEXICO	1748	59	153	190	10R	10R	99	10	23
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	1452	54	155	191	10MR-20S	TMR-TMS	89	32	29
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	1407	57	154	193	-	0	97	10	26

GRAND MEAN	2429.9	61.6	146.8	188.3	4.0	1.0	97.5	25.2	30.1
STANDARD ERROR OF GRAND MEAN	41.5	0.0							
COEFFICIENT OF VARIATION AS PC	16.2	0.2							
LSD VARIETY MEANS 5 PC	644.6	0.2							

CORRELATIONS											
YIELD	KG/HA										
TEST	WT	0.30									
FLOW	DAYS	-0.64	0.07								
MAT	DAYS	-0.45	0.01	0.48							
STRP	RT. L	-0.07	-0.03	-0.16	0.10						
LEAF	RUST	0.07	0.29	0.05	-0.33	0.01					
PLNT	HT	0.55	0.02	-0.17	-0.09	0.00	-0.17				
LODG	%	0.38	-0.17	-0.26	-0.13	0.49	-0.24	0.57			
1000	G. W.	0.20	0.58	0.01	0.03	-0.13	0.29	-0.14	-0.19		

INVIOLATELLA EXP. STN.

CERAL STAFF

LATITUDE	041 53'N	DATE PLANTED	12/17/81	NITROGEN	--
LONGITUDE	012 29'E	DATE HARVESTED	--/--/--	PHOSPHORUS	--
ELEVATION	+00075 M. ABOVE S.L.	AMOUNT OF MOISTURE	414 MM	POTASSIUM	--

SOIL MOISTURE CONDITION AT SOWING AND GERMINATION % NOT REPORTED.

SOWING DATE AND GERMINATION % NOT REPORTED.

INSECT, WEED AND BIRD PROBLEMS NOT REPORTED.

LOCAL CHECK: VALNOVA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	PLNT HT	1000 G. W.
28	CIANO 79	MEXICO	6722	83	39
29	CANANEA 79	MEXICO	5633	107	42
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	5444	85	48
5	ROK"S"	MEXICO	5222	75	49
30	LOCAL CHECK		5111	85	56
6	ROK"S"	MEXICO	4888	80	46
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	4566	77	52
19	GUIL"S"-SNIPE"S" X GDD VZ 449	MEXICO	4500	80	48
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	4277	78	42
18	FIRE"S"	MEXICO	4244	82	49
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	4000	83	46
26	MEXICALI 75	MEXICO	3888	78	52
12	SWAN"S"	MEXICO	3833	75	47
3	WIN"S"	MEXICO	3666	80	44
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3389	75	52
20	SHWA"S"-YAV"S"	MEXICO	3300	75	47
4	CHI"S"	MEXICO	3233	72	52
8	ENTE"S"-MEXI"S"	MEXICO	3000	80	45
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2977	68	49
9	ERPEL"S"-RUSO	MEXICO	2833	75	52
23	ERP"S"-GS"S" X BOY"S"	MEXICO	2777	78	50
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	2500	68	48
27	YAVAROS 79	MEXICO	2355	73	51
1	CR"S"-GS"S"	MEXICO	1889	78	47
2	YAV"S"	MEXICO	1833	72	49
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	1389	80	46
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1222	65	53
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1055	67	52
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	800	70	45
10	LDS MUT-TEAL"S"	MEXICO	722	65	49

GRAND MEAN	3375.6	77.0	48.2
STANDARD ERROR OF GRAND MEAN	98.8	0.6	0.3
COEFFICIENT OF VARIATION AS PC	27.8	6.8	6.5
LSD VARIETY MEANS 5 PC	1532.5	8.6	5.1

CORRELATIONS

YIELD KG/HA			
PLNT HT	0.69		
1000 G. W.	-0.29	-0.42	

PBS ALENTEJO

M. T. BARRADAS ET AL

LATITUDE 038 54'N

DATE PLANTED 11/18/81

NITROGEN --

LONGITUDE 007 09'W

DATE HARVESTED 6/16/82

PHOSPHORUS --

ELEVATION 0208 M. ABOVE S.L.

AMOUNT OF MOISTURE 366 MM

POTASSIUM --

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

SLIGHT DISEASE INCIDENCE. SLIGHT INSECT DAMAGE. SLIGHT WEED PROBLEM.

NEGLECTIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.

LOCAL CHECK: TIMPANAS

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %
29	CANANEA 79	MEXICO	5243	73	126	188	103	15
5	ROK"S"	MEXICO	4285	83	132	187	77	12
10	LDS MUT-TEAL"S"	MEXICO	4103	85	139	190	75	12
30	LOCAL CHECK		4066	83	139	190	85	10
9	ERPEL"S"-RUSO	MEXICO	4023	82	146	190	86	15
26	MEXICALI 75	MEXICO	3907	81	132	186	85	15
8	ENTE"S"-MEXI"S"	MEXICO	3891	80	142	190	86	17
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	3780	83	140	191	80	15
28	CIANO 79	MEXICO	3766	86	133	189	85	12
6	ROK"S"	MEXICO	3669	83	143	193	87	17
23	ERP"S"-GS"S" X BOY"S"	MEXICO	3654	81	144	190	85	15
3	WIN"S"	MEXICO	3626	83	136	189	86	15
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	3611	82	141	190	79	15
18	FIRE"S"	MEXICO	3535	80	146	193	80	17
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3526	85	143	191	73	12
20	SHWA"S"-YAV"S"	MEXICO	3467	82	141	190	79	15
12	SWAN"S"	MEXICO	3409	85	138	186	80	10
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3335	83	141	189	82	15
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3277	84	141	190	77	15
4	CHI"S"	MEXICO	3263	84	137	189	86	15
17	YEL"S"/RABI"S"-COCDBAS 10 X...	MEXICO	3251	80	142	191	82	12
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	3239	81	146	189	86	13
2	YAV"S"	MEXICO	3211	85	141	191	79	17
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	3149	80	138	187	70	17
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	3120	79	148	189	77	10
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	3086	84	139	189	87	13
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3030	85	142	190	76	13
1	CR"S"-GS"S"	MEXICO	2946	79	146	195	82	15
27	YAVAROS 79	MEXICO	2911	84	140	190	80	17
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	2038	78	148	190	79	17
		GRAND MEAN	3513.9	82.0	140.4	189.8	81.8	14.2
		STANDARD ERROR OF GRAND MEAN	42.3	0.1			0.4	
		COEFFICIENT OF VARIATION AS PC	11.4	1.0			4.9	
		LSD VARIETY MEANS 5 PC	656.2	1.3			6.5	

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %
		-0.18			
		-0.65	0.00		
		-0.24	-0.04	0.61	
		0.51	-0.46	-0.40	-0.05
		-0.18	-0.27	0.12	0.31
				0.10	

TABLE 9 EUROPE

SPAIN

CADIZ

LA MERCED (JEREZ)

CEREAL STAFF

LATITUDE	36 43'N	DATE PLANTED	12/22/81	NITROGEN	APPLIED
LONGITUDE	006 09'W	DATE HARVESTED	6/24/82	PHOSPHORUS	APPLIED
ELEVATION	+00020 M. ABOVE S.L.	AMOUNT OF MOISTURE	338 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
 SLIGHT BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: JILOCA
 LOW RAINFALL AT FLOWERING

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT
28	CIANO 79	MEXICO	5455	84	92	78
5	ROK"S"	MEXICO	4894	81	88	83
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	4890	82	96	87
4	CHI"S"	MEXICO	4659	84	94	87
6	ROK"S"	MEXICO	4559	80	98	85
9	ERPEL"S"-RUSO	MEXICO	4529	82	100	82
29	CANANEA 79	MEXICO	4496	72	87	103
30	LOCAL CHECK		4494	84	91	88
26	MEXICALI 75	MEXICO	4470	82	88	85
10	LDS MUT-TEAL"S"	MEXICO	4466	82	95	78
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	4375	83	94	82
23	ERP"S"-GS"S" X BOY"S"	MEXICO	4307	83	98	83
12	SWAN"S"	MEXICO	4305	84	93	80
18	FIRE"S"	MEXICO	4244	81	98	78
24	((DURUM46 X BD1548-N262. B/Q...	MEXICO	4238	83	99	82
2	YAV"S"	MEXICO	4233	84	96	87
16	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	4201	85	96	82
15	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	4142	86	98	82
8	ENTE"S"-MEXI"S"	MEXICO	4140	80	96	88
20	SHWA"S"-YAV"S"	MEXICO	4074	81	96	77
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	4068	84	98	85
25	((DURUM46 X BD1548-N262. B/Q...	MEXICO	3942	81	100	73
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	3863	80	96	78
3	WIN"S"	MEXICO	3783	83	92	80
27	YAVAROS 79	MEXICO	3711	84	95	83
14	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	3676	85	98	73
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	3646	78	95	82
1	CR"S"-GS"S"	MEXICO	3174	81	102	92
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	3133	83	94	85
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	3027	81	104	75
	GRAND MEAN		4173.2	82.1	95.6	82.8
	STANDARD ERROR OF GRAND MEAN		56.9			0.4
	COEFFICIENT OF VARIATION AS PC		12.9			4.2
	LSD VARIETY MEANS 5 PC		882.3			5.7

CORRELATIONS

YIELD KG/HA				
TEST WT	0.03			
FLOW DAYS	-0.50	0.22		
PLNT HT	0.16	-0.46	-0.40	

TABLE 10 EUROPE

SPAIN

MADRID

EL ENCIN

MA. LUISA GRANDA NOGUES

LATITUDE 040 33'N

DATE PLANTED 11/12/81

NITROGEN APPLIED

LONGITUDE 003 19'W

DATE HARVESTED 7/28/82

PHOSPHORUS APPLIED

ELEVATION +00600 M. ABOVE S. L.

AMOUNT OF MOISTURE 367 MM

POTASSIUM APPLIED

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

SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.

NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: CAMACHO

FROST DAMAGE AT FLOWERING STAGE

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	POW M 0-9	BYDV 0-9
23	ERP"S"-GS"S" X BOY"S"	MEXICO	4408	80	177	220	76	1	2
9	ERPEL"S"-RUSO	MEXICO	4268	80	177	221	74	0	2
3	WIN"S"	MEXICO	4007	79	168	220	76	0	3
2	YAV"S"	MEXICO	3959	81	172	220	75	0	3
6	ROK"S"	MEXICO	3927	79	174	219	67	1	3
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	3750	79	178	219	71	4	2
27	YAVAROS 79	MEXICO	3714	80	169	220	71	0	3
10	LDS MUT-TEAL"S"	MEXICO	3698	81	177	221	67	0	2
18	FIRE"S"	MEXICO	3683	79	179	224	63	1	2
5	ROK"S"	MEXICO	3664	78	166	219	76	0	4
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	3628	78	177	223	67	5	2
12	SWAN"S"	MEXICO	3582	81	174	220	71	1	2
26	MEXICALI 75	MEXICO	3567	78	166	219	75	0	3
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	3535	79	174	220	72	0	3
4	CHI"S"	MEXICO	3494	80	168	219	86	5	2
20	SHWA"S"-YAV"S"	MEXICO	3467	78	170	220	76	2	3
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	3307	77	175	221	65	2	3
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	3222	79	173	220	80	0	3
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	3208	77	179	222	65	1	3
29	CANANEA 79	MEXICO	3196	66	165	219	96	0	3
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3144	81	172	220	81	0	3
8	ENTE"S"-MEXI"S"	MEXICO	3131	77	176	219	72	0	4
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	3087	81	179	222	55	0	2
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2958	78	173	220	68	0	3
28	CIANO 79	MEXICO	2857	75	166	219	74	3	3
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	2854	75	170	219	75	1	4
30	LDCAL CHECK		2779	80	177	221	71	0	3
1	CR"S"-GS"S"	MEXICO	2599	79	177	223	72	0	2
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2503	75	174	220	68	0	3
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1960	77	174	220	63	0	3

GRAND MEAN	3371.9	78.2	173.2	220.3	72.3	0.9	2.7
STANDARD ERROR OF GRAND MEAN	52.7	0.1			0.4		
COEFFICIENT OF VARIATION AS PC	14.8	1.1			5.8		
LSD VARIETY MEANS 5 PC	816.9	1.4			6.9		

CORRELATIONS

YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	POW M 0-9	BYDV 0-9					
	0.36										
		0.01	0.43								
			-0.03	0.27	0.67						
				0.17	-0.43	-0.68	-0.53				
					0.15	0.00	0.01	0.02	0.06		
						-0.34	-0.43	-0.55	-0.59	0.22	-0.41

INST. ZA POLJODELSTVO I GRADINARSTVO

I. ANGELOV

LATITUDE	043 00'N	DATE PLANTED	11/ 1/81	NITROGEN	APPLIED
LONGITUDE	022 00'E	DATE HARVESTED	7/10/82	PHOSPHORUS	APPLIED
ELEVATION	0250 M. ABOVE S. L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. MECHANICAL CONTROL OF WEEDS. HAND WEEDING.
 LOCAL CHECK: ILINDEN

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G. W.
28	CIANO 79	MEXICO	8333	81	186	231	98	44
30	LOCAL CHECK		8106	81	186	232	97	67
29	CANANEA 79	MEXICO	7999	67	178	231	380	43
5	ROK"S"	MEXICO	6888	78	185	230	86	48
18	FIRE"S"	MEXICO	6666	81	190	232	100	54
6	ROK"S"	MEXICO	6555	79	189	230	92	47
20	SHWA"S"-YAV"S"	MEXICO	6333	80	186	233	79	48
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	6111	80	189	231	93	56
3	WIN"S"	MEXICO	6111	80	186	230	94	52
24	{(DURUM46 X BD1548-N262. B/G...	MEXICO	5888	80	190	233	86	45
23	ERP"S"-GS"S" X BOY"S"	MEXICO	5888	79	189	234	84	49
4	CHI"S"	MEXICO	5777	80	187	230	94	57
8	ENTE"S"-MEXI"S"	MEXICO	5555	78	190	233	96	51
27	YAVARDS 79	MEXICO	5333	82	185	232	94	55
9	ERPEL"S"-RUSO	MEXICO	5333	80	190	233	80	57
19	GUIL"S"-SNIPE"S" X ODO VZ 449	MEXICO	5222	80	189	234	84	50
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	5222	78	188	234	92	57
12	SWAN"S"	MEXICO	5222	83	187	231	84	54
26	MEXICALI 75	MEXICO	5222	80	185	232	87	59
25	{(DURUM46 X BD1548-N262. B/G...	MEXICO	4666	80	189	233	81	45
10	LDS MUT-TEAL"S"	MEXICO	4444	82	190	235	77	53
2	YAV"S"	MEXICO	4111	32	189	234	91	55
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	3889	79	190	238	84	59
16	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	3777	79	197	233	85	57
15	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	3555	82	189	233	78	57
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3555	80	189	233	83	56
14	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	3444	82	188	233	73	54
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	3333	78	187	231	84	58
1	CR"S"-GS"S"	MEXICO	3111	79	191	235	89	61
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	2889	79	190	233	81	54

GRAND MEAN	5284.5	79.6	188.1	232.6	96.8	53.4
STANDARD ERROR OF GRAND MEAN	68.4	0.0			8.9	0.2
COEFFICIENT OF VARIATION AS PC	12.3	0.2			87.2	3.2
LSM VARIETY MEANS 5 PC	1060.8	0.2			137.9	2.8

CORRELATIONS

YIELD KG/HA						
TEST WT	-0.28					
FLOW DAYS	-0.55	0.46				
MAT DAYS	-0.52	0.13	0.46			
PLNT HT	0.41	-0.86	-0.64	-0.21		
1000 G. W.	-0.40	0.34	0.28	0.25	-0.35	

AGRIC. RES. INST.

A. HADJICHRISTODOULOU

LATITUDE 35 04'N

LONGITUDE 33 20'E

ELEVATION 150 M. ABOVE S. L.

DATE PLANTED 12/14/81

DATE HARVESTED 6/25/82

AMOUNT OF MOISTURE 210 MM

NITROGEN APPLIED

PHOSPHORUS APPLIED

POTASSIUM --

NORMAL SOWING DATE. GERMINATION GOOD. NEGLIGIBLE DISEASE DEVELOPMENT.
 NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
 HAND WEEDING. LOCAL CHECK: MESOCORIA DURUM WHEAT
 WEATHER EXTREMELY DRY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
9	ERPEL"S"--RUSO	MEXICO	3798	106	80
4	CHI"S"	MEXICO	3473	95	78
18	FIRE"S"	MEXICO	3366	108	75
2	YAV"S"	MEXICO	3309	99	75
19	GUIL"S"--SNIPE"S" X GDO VZ 449	MEXICO	3298	103	84
22	RUFF"S"--FG"S" X MEXI75/SHWA...	MEXICO	3281	97	79
21	YEL"S"--SAPI"S"/BD1814 X BDI...	MEXICO	3245	107	73
12	SWAN"S"	MEXICO	3240	100	70
27	YAVARDS 79	MEXICO	3209	99	75
14	FUL"S"--FG"S"/OYCA"S" X RUFF...	MEXICO	3195	106	72
20	SHWA"S"--YAV"S"	MEXICO	3146	98	77
3	WIN"S"	MEXICO	3141	95	78
29	CANANEA 79	MEXICO	3124	93	98
10	LDS MUT-TEAL"S"	MEXICO	3099	100	75
15	FUL"S"--FG"S"/OYCA"S" X RUFF...	MEXICO	3063	106	70
16	FUL"S"--FG"S"/OYCA"S" X RUFF...	MEXICO	3033	105	73
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	2989	110	74
28	CIAND 79	MEXICO	2981	95	84
11	TEAL"S"--WIN"S" X GAD"S"	MEXICO	2967	101	74
23	ERP"S"--GS"S" X BOY"S"	MEXICO	2914	107	80
6	ROK"S"	MEXICO	2873	107	73
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	2860	108	76
26	MEXICALI 75	MEXICO	2825	92	77
8	ENTE"S"--MEXI"S"	MEXICO	2805	107	83
17	YEL"S"/RABI"S"--COCOBAS 10 X...	MEXICO	2736	99	73
13	GTA"S"--RABI"S" X USAIV718/S...	MEXICO	2686	102	68
1	CR"S"--GS"S"	MEXICO	2668	109	83
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	2453	97	78
30	LOCAL CHECK		2241	97	67
5	ROK"S"	MEXICO	2233	93	73

GRAND MEAN	3008.3	101.3	76.2
STANDARD ERROR OF GRAND MEAN	55.5		0.5
COEFFICIENT OF VARIATION AS PC	17.5		5.0
LSD VARIETY MEANS 5 PC	860.1		7.7

CORRELATIONS

YIELD KG/HA		
FLOW DAYS	0.17	
PLNT HT	0.23	-0.19

MIVHOR FARM

HAZERA SEEDS LTD.

LATITUDE	031 37'N	DATE PLANTED	11/27/81	NITROGEN	APPLIED
LONGITUDE	034 47'E	DATE HARVESTED	6/ 6/82	PHOSPHORUS	--
ELEVATION	0120 M. ABOVE S. L.	AMOUNT OF MOISTURE	426 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: H-870
 DRY WHEATHER CONDITIONS IN DECEMBER AND JANUARY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G. W.
5	ROK"S"	MEXICO	7461	78	94	102	51
4	CHI"S"	MEXICO	7021	80	97	112	51
29	CANANEA 79	MEXICO	7001	68	91	138	38
30	LOCAL CHECK		6811	78	88	110	53
27	YAVAROS 79	MEXICO	6726	81	101	108	49
2	YAV"S"	MEXICO	6634	83	101	107	52
26	MEXICALI 75	MEXICO	6601	78	96	108	47
9	ERPEL"S"-RUSO	MEXICO	6561	79	108	103	49
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	6476	81	101	105	52
28	CIANO 79	MEXICO	6437	78	102	107	31
8	ENTE"S"-MEXI"S"	MEXICO	6312	77	101	110	42
3	WIN"S"	MEXICO	6207	78	99	107	47
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	6200	79	100	113	49
10	LDS MUT-TEAL"S"	MEXICO	6180	80	101	103	42
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	6049	77	101	105	49
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	6043	81	108	100	48
6	ROK"S"	MEXICO	5970	79	101	108	47
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	5944	79	101	105	45
20	SHWA"S"-YAV"S"	MEXICO	5911	79	105	107	41
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	5905	78	101	110	42
24	((DURUM46 X BD1548-N262. B/O...	MEXICO	5859	77	111	108	34
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	5846	82	108	105	58
12	SWAN"S"	MEXICO	5760	82	100	103	51
18	FIRE"S"	MEXICO	5754	78	110	102	46
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	5642	78	100	102	49
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	5629	82	108	102	58
23	ERP"S"-GS"S" X BOY"S"	MEXICO	5563	78	106	113	43
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	5130	79	114	95	42
1	CR"S"-GS"S"	MEXICO	5051	79	107	115	47
25	((DURUM46 X BD1548-N262. B/O...	MEXICO	4558	71	114	98	29

GRAND MEAN	6108.0	78.6	102.4	107.1	46.0
STANDARD ERROR OF GRAND MEAN	34.6	0.1		0.2	0.3
COEFFICIENT OF VARIATION AS PC	5.4	1.0		2.2	5.7
LSD VARIETY MEANS 5 PC	536.4	1.3		3.9	4.3

CORRELATIONS

YIELD KG/HA					
TEST WT	0.06				
FLOW DAYS	-0.77	0.13			
PLNT HT	0.37	-0.49	-0.53		
1000 G. W.	0.29	0.66	-0.27	-0.13	

TABLE 14 MIDDLE EAST

JORDAN

MOSHAKA STATION

CEREAL STAFF

LATITUDE	031	DATE PLANTED	11/17/81	NITROGEN	APPLIED
LONGITUDE	035 48'E	DATE HARVESTED	7/10/82	PHOSPHORUS	APPLIED
ELEVATION	+00785 M ABOVE S.L.	AMOUNT OF MOISTURE	284 MM	POTASSIUM	--

SOWING DATE, SOIL MOISTURE CONDITION AND GERMINATION % NOT REPORTED.
 DISEASE DEVELOPMENT NOT REPORTED. NEGLIGIBLE INSECT DAMAGE.
 MODERATE WEED PROBLEM. HAND WEEDING. LOCAL CHECK NAME NOT REPORTED.
 THE RAIN STOPPED FROM LATE NOVEMBER TILL BEGIN OF FEBRUARY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	PLNT HT
4	CHI"S"	MEXICO	2955	67
6	ROK"S"	MEXICO	2900	65
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	2789	68
12	SWAN"S"	MEXICO	2666	70
5	ROK"S"	MEXICO	2600	67
28	CIANO 79	MEXICO	2589	65
10	LDS MUT-TEAL"S"	MEXICO	2511	65
19	GUIL"S"-SNIFE"S" X GDO VZ 449	MEXICO	2500	65
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	2411	65
13	GTA"S"-RABI"S" X USAIV71B/S...	MEXICO	2389	58
23	ERP"S"-GS"S" X BOY"S"	MEXICO	2344	63
8	ENTE"S"-MEXI"S"	MEXICO	2333	70
9	ERPEL"S"-RUSO	MEXICO	2311	63
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	2255	65
18	FIRE"S"	MEXICO	2166	70
20	SHWA"S"-YAV"S"	MEXICO	2144	63
26	MEXICALI 75	MEXICO	2066	60
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	2055	62
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2044	63
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2011	65
3	WIN"S"	MEXICO	2000	60
30	LOCAL CHECK		1966	80
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	1922	50
1	CR"S"-GS"S"	MEXICO	1766	58
2	YAV"S"	MEXICO	1755	57
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	1744	55
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1733	60
27	YAVAROS 79	MEXICO	1655	58
29	CANANEA 79	MEXICO	1422	73
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	1267	65
	GRAND MEAN		2175.7	63.9
	STANDARD ERROR OF GRAND MEAN		57.8	0.2
	COEFFICIENT OF VARIATION AS PC		25.2	3.7
	LSD VARIETY MEANS 5 PC		896.4	3.8

CORRELATIONS

YIELD KG/HA	
PLNT HT	0.26

ICARDA

J. P. SIRIVASTAVA

LATITUDE	36 09'N	DATE PLANTED	11/24/81	NITROGEN	APPLIED
LONGITUDE	36 04'E	DATE HARVESTED	6/22/82	PHOSPHORUS	APPLIED
ELEVATION	300 M. ABOVE S. L.	AMOUNT OF MOISTURE	338 MM	POTASSIUM	---

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION POOR.
 NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.
 LOCAL CHECK: SAHL=CR"S" T. DIC. V. VER/QLL"S"

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	PLNT HT
6	ROK"S"	MEXICO	4894	85
9	ERPEL"S"-RUSO	MEXICO	4766	80
10	LDS MUT-TEAL"S"	MEXICO	4605	75
18	FIRE"S"	MEXICO	4438	85
8	ENTE"S"-MEXI"S"	MEXICO	4322	90
4	CHI"S"	MEXICO	4238	80
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	4233	80
3	WIN"S"	MEXICO	4211	80
12	SWAN"S"	MEXICO	4183	80
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	4183	80
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	4155	85
30	LOCAL CHECK		4150	80
27	YAVAROS 79	MEXICO	4105	75
5	ROK"S"	MEXICO	4066	75
29	CANANEA 79	MEXICO	4011	100
28	CIANO 79	MEXICO	4000	70
19	GUIL"S"-SNIPE"S" X QDD VZ 449	MEXICO	3705	70
23	ERP"S"-GS"S" X BOY"S"	MEXICO	3600	90
2	YAV"S"	MEXICO	3539	80
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3533	80
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3516	75
11	TEAL"S"-WIN"S" X QAD"S"	MEXICO	3511	75
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3505	75
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	3477	75
20	SHWA"S"-YAV"S"	MEXICO	3416	70
26	MEXICALI 75	MEXICO	3316	80
1	CR"S"-GS"S"	MEXICO	3177	85
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	3155	75
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	3072	85
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2881	80

GRAND MEAN	3865.5	79.8
STANDARD ERROR OF GRAND MEAN	62.6	
COEFFICIENT OF VARIATION AS PC	15.4	
LSD VARIETY MEANS 5 PC	971.1	

CORRELATIONS

YIELD KG/HA	
PLNT HT	0.17

E. B. Z. A. ENST.

CEREAL STAFF

LATITUDE

DATE PLANTED

11/10/81

NITROGEN

APPLIED

LONGITUDE

DATE HARVESTED

6/18/82

PHOSPHORUS

APPLIED

ELEVATION

M. ABOVE S. L.

AMOUNT OF MOISTURE

-- MM

POTASSIUM

--

SOWING DATE AND GERMINATION % NOT REPORTED.

SOWING DATE NOT REPORTED. MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE.

MODERATE WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE. WEATHER NORMAL.

LOCAL CHECK: GEDIZ-75

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA
30	LOCAL CHECK		3834
6	ROK"S"	MEXICO	3748
4	CHI"S"	MEXICO	3717
24	{(DURUM46 X BD1548-N262. B/G...	MEXICO	3388
29	CANANEA 79	MEXICO	3317
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	3300
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3066
12	SWAN"S"	MEXICO	3013
28	CIANO 79	MEXICO	2995
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	2993
23	ERP"S"-GS"S" X BOY"S"	MEXICO	2885
25	{(DURUM46 X BD1548-N262. B/G...	MEXICO	2797
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2784
5	ROK"S"	MEXICO	2777
3	WIN"S"	MEXICO	2475
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	2434
2	YAV"S"	MEXICO	2431
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	2403
18	FIRE"S"	MEXICO	2363
20	SHWA"S"-YAV"S"	MEXICO	2297
8	ENTE"S"-MEXI"S"	MEXICO	2129
9	ERPEL"S"-RUSO	MEXICO	2114
27	YAVARDS 79	MEXICO	2075
10	LDS MUT-TEAL"S"	MEXICO	1950
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1904
26	MEXICALI 75	MEXICO	1881
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	1822
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1678
1	CR"S"-GS"S"	MEXICO	1486
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	1361

GRAND MEAN	2580.5
STANDARD ERROR OF GRAND MEAN	83.5
COEFFICIENT OF VARIATION AS PC	30.7
LSD VARIETY MEANS 5 PC	1294.7

ELORA RESEARCH STATION

L. A. HUNT & P. M. MELITA

LATITUDE 43 39'N

DATE PLANTED

5/ 5/82

NITROGEN

APPLIED

LONGITUDE 80 25'W

DATE HARVESTED

8/25/82

PHOSPHORUS

APPLIED

ELEVATION 380 M. ABOVE S. L.

AMOUNT OF MOISTURE

334 MM

POTASSIUM

--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. MECHANICAL CONTROL OF WEEDS.
 WEATHER NORMAL. LOCAL CHECK NAME NOT REPORTED.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	PLNT HT	POW M 0-9
30	LOCAL CHECK		3411	110	3
11	TEAL"S"--WIN"S" X GAD"S"	MEXICO	3365	70	4
12	SWAN"S"	MEXICO	3131	75	5
26	MEXICALI 75	MEXICO	3061	74	3
28	CIANO 79	MEXICO	2991	75	2
19	GUIL"S"--SNIPE"S" X GDO VZ 449	MEXICO	2944	67	4
18	FIRE"S"	MEXICO	2944	67	2
20	SHWA"S"--YAV"S"	MEXICO	2874	70	5
29	CANANEA 79	MEXICO	2804	95	1
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	2804	66	4
27	YAVAROS 79	MEXICO	2734	70	3
6	ROK"S"	MEXICO	2734	67	4
3	WIN"S"	MEXICO	2710	72	4
23	ERP"S"--GS"S" X BOY"S"	MEXICO	2687	77	4
8	ENTE"S"--MEXI"S"	MEXICO	2664	75	5
5	ROK"S"	MEXICO	2640	70	5
10	LDS MUT-TEAL"S"	MEXICO	2500	67	2
13	GTA"S"--RABI"S" X USAIV718/S...	MEXICO	2493	66	3
4	CHI"S"	MEXICO	2407	73	5
14	FUL"S"--FG"S"/OYCA"S" X RUFF...	MEXICO	2337	62	4
16	FUL"S"--FG"S"/OYCA"S" X RUFF...	MEXICO	2313	70	4
1	CR"S"--GS"S"	MEXICO	2243	75	4
9	ERPEL"S"--RUSO	MEXICO	2220	75	4
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	2150	74	4
17	YEL"S"/RABI"S"--COCOBAS 10 X...	MEXICO	2150	67	3
15	FUL"S"--FG"S"/OYCA"S" X RUFF...	MEXICO	2150	67	4
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	2126	73	4
22	RUFF"S"--FG"S" X MEXI75/SHWA...	MEXICO	2079	65	3
2	YAV"S"	MEXICO	1682	70	3
21	YEL"S"--SAPI"S"/BD1814 X BD1...	MEXICO	1308	65	4

GRAND MEAN 2553.8 72.3 3.6
 STANDARD ERROR OF GRAND MEAN
 COEFFICIENT OF VARIATION AS PC
 LSD VARIETY MEANS 5 PC

CORRELATIONS

YIELD KG/HA
 PLNT HT 0.41
 POW M 0-9 -0.08 -0.25

EL BATAN

CIMMYT

LATITUDE	019 31'N	DATE PLANTED	6/ 1/81	NITROGEN	APPLIED
LONGITUDE	098 50'W	DATE HARVESTED	10/18/81	PHOSPHORUS	APPLIED
ELEVATION	2249 M. ABOVE S. L.	AMOUNT OF MOISTURE	971 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
 NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. MECHANICAL CONTROL OF WEEDS.
 HAND WEEDING. WEATHER NOT REPORTED. LOCAL CHECK: PAVON 76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G. W.
29	CANANEA 79	MEXICO	7334	64	58	115	40
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	6910	75	62	90	44
26	MEXICALI 75	MEXICO	6806	74	58	90	47
30	LOCAL CHECK		6514	77	63	100	32
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	6028	73	65	88	35
6	ROK"S"	MEXICO	5938	73	61	82	40
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	5903	72	60	87	42
27	YAVAROS 79	MEXICO	5764	76	66	87	43
2	YAV"S"	MEXICO	5744	78	67	90	40
28	CIANO 79	MEXICO	5709	75	59	83	33
5	ROK"S"	MEXICO	5695	71	58	80	42
8	ENTE"S"-MEXI"S"	MEXICO	5653	71	66	88	38
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	5584	76	62	83	47
12	SWAN"S"	MEXICO	5473	77	63	85	39
4	CHI"S"	MEXICO	5382	76	61	85	43
3	WIN"S"	MEXICO	5355	73	62	87	45
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	4987	73	65	87	36
20	SHWA"S"-YAV"S"	MEXICO	4966	72	69	85	35
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4806	76	62	85	45
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	4792	70	69	80	34
23	ERP"S"-GS"S" X BOY"S"	MEXICO	4771	70	69	90	37
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	4743	74	64	80	41
18	FIRE"S"	MEXICO	4695	72	65	85	40
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4639	74	67	83	31
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	4375	70	62	78	42
9	ERPEL"S"-RUSO	MEXICO	4327	73	70	90	43
1	CR"S"-GS"S"	MEXICO	3639	68	68	88	39
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3598	75	61	80	44
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	3306	68	67	80	36
10	LDS MUT-TEAL"S"	MEXICO	2361	59	60	78	22

GRAND MEAN	5193.2	72.5	63.7	86.3	39.2
STANDARD ERROR OF GRAND MEAN	104.2	0.2		0.2	0.5
COEFFICIENT OF VARIATION AS PC	19.0	2.2		2.7	12.1
LSD VARIETY MEANS 5 PC	1615.9	2.6		3.7	7.7

CORRELATIONS

YIELD KG/HA					
TEST WT	0.43				
FLOW DAYS	-0.36	0.05			
PLNT HT	0.62	-0.05	-0.09		
1000 G. W.	0.38	0.50	-0.22	0.09	

EL BAJIO
R. URBINA

LATITUDE 020 32'N DATE PLANTED 12/14/81 NITROGEN APPLIED
LONGITUDE 100 49'W DATE HARVESTED 5/24/82 PHOSPHORUS APPLIED
ELEVATION 1765 M. ABOVE S. L. AMOUNT OF MOISTURE -- MM POTASSIUM --

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF INSECTS AND WEEDS. HAND WEEDING.
WEATHER NORMAL. LOCAL CHECK: CM-17904-B-3M-1Y-1Y

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	PLNT HT
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	7524	86	130	0	83
30	LOCAL CHECK		7468	84	132	0	85
26	MEXICALI 75	MEXICO	7389	79	126	0	90
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	7292	85	129	0	85
4	CHI"S"	MEXICO	7241	81	130	0	85
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	7149	86	131	0	80
28	CIAND 79	MEXICO	7056	88	133	20MR	90
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	7033	84	133	0	83
2	YAV"S"	MEXICO	6718	84	127	0	85
12	SWAN"S"	MEXICO	6686	86	131	0	85
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	6602	85	131	0	85
5	ROK"S"	MEXICO	6551	79	126	0	85
27	YAVAROS 79	MEXICO	6417	84	128	0	88
19	GUIL"S"-SNIPE"S" X GDD VZ 449	MEXICO	6408	87	132	0	85
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	6399	81	128	0	90
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	6394	86	129	0	83
9	ERPEL"S"-RUSO	MEXICO	6385	89	132	0	85
3	WIN"S"	MEXICO	6352	81	128	0	85
18	FIRE"S"	MEXICO	6172	90	-	0	80
10	LDS MUT-TEAL"S"	MEXICO	6116	86	131	0	83
24	{(DURUM46 X BD1548-N262. B/G...	MEXICO	6075	90	132	0	90
23	ERP"S"-GS"S" X BOY"S"	MEXICO	6042	86	132	0	93
6	ROK"S"	MEXICO	5991	85	126	0	85
29	CANANEA 79	MEXICO	5871	85	127	0	115
8	ENTE"S"-MEXI"S"	MEXICO	5825	88	131	0	90
20	SHWA"S"-YAV"S"	MEXICO	5787	86	131	0	80
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	5746	89	134	0	80
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	5639	87	130	0	85
25	{(DURUM46 X BD1548-N262. B/G...	MEXICO	4973	92	132	0	83
1	CR"S"-GS"S"	MEXICO	4273	90	130	TR	88
GRAND MEAN			6385.9	85.6	129.8	0.4	86.2
STANDARD ERROR OF GRAND MEAN			47.0				0.4
COEFFICIENT OF VARIATION AS PC			7.0				3.6
LSD VARIETY MEANS 5 PC			729.2				6.3

CORRELATIONS

YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	PLNT HT
		-0.56		
		-0.09	0.63	
		0.16	0.14	0.26
		-0.13	-0.12	-0.29
				0.09

CIANO (1ST DATE)

CIMMYT

LATITUDE	027 20'N	DATE PLANTED	11/19/82	NITROGEN	APPLIED
LONGITUDE	109 54'W	DATE HARVESTED	4/21/82	PHOSPHORUS	APPLIED
ELEVATION	0038 M. ABOVE S. L.	AMOUNT OF MOISTURE	720 MM	POTASSIUM	--

EARLY SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
 NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF INSECTS AND WEEDS.
 MECHANICAL CONTROL OF WEEDS. WEATHER NORMAL. LOCAL CHECK: PAVON 76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	LEAF RUST	PLNT HT	1000 G.W.
20	SHWA"S"-YAV"S"	MEXICO	7762	84	91	TR	93	55
19	GUIL"S"-SNIPE"S" X GDD VZ 449	MEXICO	7192	83	91	TR	93	51
5	ROK"S"	MEXICO	7178	82	80	TR	88	58
8	ENTE"S"-MEXI"S"	MEXICO	7109	82	89	TS-MS	95	49
30	LOCAL CHECK		6931	83	89	TMS-S	97	43
23	ERP"S"-GS"S" X BOY"S"	MEXICO	6834	82	94	TMS	98	58
3	WIN"S"	MEXICO	6745	81	84	TR	92	59
4	CHI"S"	MEXICO	6726	83	84	TR	90	59
29	CANANEA 79	MEXICO	6709	70	82	5MR	112	48
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	6695	85	85	TR	87	55
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	6692	83	94	TR	92	50
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	6584	82	84	5S	97	57
9	ERPEL"S"-RUSO	MEXICO	6570	82	96	TR	88	59
18	FIRE"S"	MEXICO	6481	83	95	TR	87	55
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	6476	81	99	0	82	45
27	YAVAROS 79	MEXICO	6384	84	90	0	88	60
28	CIANO 79	MEXICO	6309	80	87	TMS-S	88	37
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	6184	85	91	0	88	57
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	6120	84	86	0	87	60
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	6103	83	89	TMR	85	55
6	ROK"S"	MEXICO	6092	83	90	TR	85	51
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	6050	80	84	0	83	60
26	MEXICALI 75	MEXICO	6034	82	77	TMR	87	60
2	YAV"S"	MEXICO	5873	85	87	TR	92	57
12	SWAN"S"	MEXICO	5800	84	83	5R-MR	85	59
10	LDS MUT-TEAL"S"	MEXICO	5725	83	87	TR	82	53
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	5575	84	94	TMS	82	61
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	5550	82	97	10MS-MR	80	48
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	5267	80	87	0	83	57
1	CR"S"-GS"S"	MEXICO	5092	80	96	TR	98	56
GRAND MEAN			6361.4	82.1	88.7	0.7	89.4	54.3
STANDARD ERROR OF GRAND MEAN			98.9	0.1			0.6	0.2
COEFFICIENT OF VARIATION AS PC			14.8	0.7			5.9	3.8
LSD VARIETY MEANS 5 PC			1534.2	1.0			8.7	3.3

CORRELATIONS

YIELD	KG/HA				
TEST	WT	0.01			
FLOW	DAYS	-0.10	0.18		
LEAF	RUST	-0.13	-0.20	0.05	
PLNT	HT	0.43	-0.54	-0.15	0.11
1000	G.W.	-0.18	0.31	-0.25	-0.23 -0.17

PALMERSTON NORTH

H. M. MCEWAN

LATITUDE	040 23'S	DATE PLANTED	10/21/81	NITROGEN	--
LONGITUDE	175 37'E	DATE HARVESTED	3/ 8/82	PHOSPHORUS	--
ELEVATION	0015 M. ABOVE S. L.	AMOUNT OF MOISTURE	285 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.
 LOCAL CHECK: VERUM GLABROUS

VAR NO	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT	BYDV 0-9
30	LOCAL CHECK		7360	60	87	3
29	CANANEA 79	MEXICO	7090	58	100	4
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	5736	60	72	3
6	ROK"S"	MEXICO	5577	58	75	3
18	FIRE"S"	MEXICO	5525	60	75	3
4	CHI"S"	MEXICO	5370	59	77	3
10	LDS MUT-TEAL"S"	MEXICO	5356	61	73	4
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	5326	60	77	4
19	GUIL"S"-SNIPE"S" X QDO VZ 449	MEXICO	5303	62	78	3
3	WIN"S"	MEXICO	5166	59	75	2
5	ROK"S"	MEXICO	5150	56	77	3
23	ERP"S"-GS"S" X BOY"S"	MEXICO	5137	62	80	3
12	SWAN"S"	MEXICO	4954	60	77	4
2	YAV"S"	MEXICO	4937	61	73	2
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	4929	59	73	4
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	4855	61	73	5
9	ERPEL"S"-RUSD	MEXICO	4669	62	72	3
1	CR"S"-GS"S"	MEXICO	4583	64	78	3
8	ENTE"S"-MEXI"S"	MEXICO	4427	63	82	4
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	4377	59	73	3
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4258	61	68	3
20	SHWA"S"-YAV"S"	MEXICO	4187	61	73	3
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4176	61	67	4
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	4110	62	72	3
26	MEXICALI 75	MEXICO	4038	59	78	4
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	3799	63	72	3
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	3762	61	77	4
27	YAVAROS 79	MEXICO	3651	61	72	4
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	3576	62	82	4
28	CIANO 79	MEXICO	2888	61	83	4

GRAND MEAN	4809.0	60.5	76.3	3.4
STANDARD ERROR OF GRAND MEAN	60.8		0.3	
COEFFICIENT OF VARIATION AS PC	12.0		3.4	
LSD VARIETY MEANS 5 PC	942.3		4.2	

CORRELATIONS

YIELD KG/HA				
FLOW DAYS	-0.46			
PLNT HT	0.45	-0.19		
BYDV 0-9	-0.21	0.05	0.19	

SAN BENITO

G. SALAMANCA ET AL

LATITUDE	017 30'S	DATE PLANTED	12/30/81	NITROGEN	APPLIED
LONGITUDE	066 06'W	DATE HARVESTED	5/27/82	PHOSPHORUS	APPLIED
ELEVATION	2730 M. ABOVE S. L.	AMOUNT OF MOISTURE	379 MM	POTASSIUM	---

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. MODERATE WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. MECHANICAL CONTROL OF WEEDS.
 LOCAL CHECK: SACABA 81

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	SEP T 0-9
29	CANANEA 79	MEXICO	3237	55	129	90	0
19	GUIL"S"-SNIPE"S" X GDD VZ 449	MEXICO	3202	64	133	78	2
9	ERPEL"S"-RUSO	MEXICO	3080	66	134	78	2
28	CIANO 79	MEXICO	3023	59	130	75	1
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	2788	60	129	70	2
30	LOCAL CHECK		2775	54	128	80	3
1	CR"S"-GS"S"	MEXICO	2709	67	138	80	3
6	ROK"S"	MEXICO	2646	60	130	75	2
8	ENTE"S"-MEXI"S"	MEXICO	2581	67	134	82	3
3	WIN"S"	MEXICO	2572	59	130	77	1
18	FIRE"S"	MEXICO	2559	62	131	73	2
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	2509	60	130	72	3
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2402	61	131	67	0
4	CHI"S"	MEXICO	2371	58	129	70	1
2	YAV"S"	MEXICO	2333	65	134	72	1
5	ROK"S"	MEXICO	2300	56	128	67	2
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	2291	63	133	77	2
17	YEL"S"/RABI"S"-COCOBAS 10, X...	MEXICO	2280	60	131	72	1
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	2196	61	130	78	1
12	SWAN"S"	MEXICO	2177	62	130	72	2
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1989	63	131	72	2
20	SHWA"S"-YAV"S"	MEXICO	1975	65	134	70	2
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1957	64	133	68	2
27	YAVAROS 79	MEXICO	1885	63	132	68	1
10	LDS MUT-TEAL"S"	MEXICO	1861	61	131	67	2
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	1770	67	132	75	1
26	MEXICALI 75	MEXICO	1707	57	129	70	1
23	ERP"S"-GS"S" X BOY"S"	MEXICO	1696	68	134	73	2
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	1544	69	136	68	1
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	1461	67	134	67	2

GRAND MEAN	2329.2	62.1	131.6	73.4	1.6
STANDARD ERROR OF GRAND MEAN	55.4	0.1	0.1	0.4	0.1
COEFFICIENT OF VARIATION AS PC	22.6	1.8	1.0	5.5	55.6
LSD VARIETY MEANS 5 PC	859.7	1.9	2.2	6.6	1.5

CORRELATIONS

YIELD KG/HA					
FLOW DAYS	-0.40				
MAT DAYS	-0.24	0.94			
PLNT HT	0.66	-0.14	0.01		
SEP T 0-9	0.09	0.24	0.26	0.08	

TABLE 23 SOUTH AMERICA

BOLIVIA

SANTA CRUZ

EST EXP ARMANDO GOMEZ

E. IGNACIO ET AL

LATITUDE	18 39'S	DATE PLANTED	5/17/82	NITROGEN	--
LONGITUDE	63 01'W	DATE HARVESTED	9/--/82	PHOSPHORUS	--
ELEVATION	386 M. ABOVE S. L.	AMOUNT OF MOISTURE	572 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 NEGLIGIBLE INSECT DAMAGE. MODERATE WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
 CHEMICAL CONTROL OF INSECTS. HAND WEEDING. WEATHER NORMAL.
 LOCAL CHECK: GUILLEMDT"S"

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	LEAF RUST	STEM RUST	PLNT HT	LODG %
30	LOCAL CHECK		2733	79	114	0	5MR	73	7
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	2450	75	104	0	5MR	67	15
29	CANANEA 79	MEXICO	2311	60	100	10MR	0	73	7
5	ROK"S"	MEXICO	2289	68	102	10MR	10MR	60	18
12	SWAN"S"	MEXICO	2244	76	110	20MS	10MR	67	7
6	ROK"S"	MEXICO	2239	77	111	20MS	20MS-MR	70	0
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	2205	82	113	10MR	5MR	72	4
4	CHI"S"	MEXICO	2122	77	111	20MR	5MR	70	11
28	CIANO 79	MEXICO	2072	72	106	TMR	20MS	65	15
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	2055	76	107	10MS	20MR-MS	65	7
3	WIN"S"	MEXICO	2016	76	108	40S	20S	68	4
26	MEXICALI 75	MEXICO	1955	73	104	TMR	5MR	65	11
8	ENTE"S"-MEXI"S"	MEXICO	1896	79	111	5MR	10MR	73	22
10	LDS MUT-TEAL"S"	MEXICO	1861	72	100	TS	5MR	57	7
2	YAV"S"	MEXICO	1628	85	116	0	10MR	65	7
27	YAVAROS 79	MEXICO	1622	85	114	10MR-MS	20MR	70	15
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	1617	90	118	10MR	5MR	68	4
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	1617	86	112	30S	20MR	67	7
1	CR"S"-GS"S"	MEXICO	1578	89	120	TS	TMR	73	11
9	ERPEL"S"-RUSO	MEXICO	1505	85	112	20MS	10MR	67	4
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	1478	79	111	20MS-S	40MS	72	7
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	1389	89	116	10MR	20MR-MS	63	0
20	SHWA"S"-YAV"S"	MEXICO	1161	90	119	40S	30MR	72	18
23	ERP"S"-GS"S" X BOY"S"	MEXICO	883	91	118	40S	30MS	68	7
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	839	80	108	30MS-S	30MS-S	73	44
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	772	77	100	30MS	30MS-S	68	44
18	FIRE"S"	MEXICO	722	87	108	30S	20MR	70	33
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	450	78	100	-	40S	72	67
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	406	87	109	-	40MS	75	55
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	167	78	96	-	60S	65	82

GRAND MEAN	1609.3	79.8	109.1	12.9	13.7	68.4	18.1
STANDARD ERROR OF GRAND MEAN	27.3					0.3	
COEFFICIENT OF VARIATION AS PC	16.1					4.7	
LSD VARIETY MEANS 5 PC	424.2					5.2	

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	-0.47					
MAT	DAYS	0.12	0.77				
LEAF	RUST	-0.67	0.43	0.10			
STEM	RUST	-0.77	0.15	-0.31	0.69		
PLNT	HT	-0.17	0.24	0.32	0.32	0.16	
LODG	%	-0.76	-0.01	-0.54	0.37	0.73	0.19

LA PLATINA

J. RAMIREZ

LATITUDE 033 27'S

DATE PLANTED

8/10/82

NITROGEN

APPLIED

LONGITUDE 070 38'W

DATE HARVESTED

1/ 4/83

PHOSPHORUS

APPLIED

ELEVATION 0629 M. ABOVE S. L.

AMOUNT OF MOISTURE

165 MM

POTASSIUM

--

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 MODERATE DISEASE INCIDENCE. SLIGHT INSECT DAMAGE. NO WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. HAND WEEDING.
 LOCAL CHECK: QUILAFEN

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT
2	YAV"S"	MEXICO	5903	83	TMR	TR	TMR	80
28	CIANO 79	MEXICO	5757	79	TMS	20S	5MR-MS	80
18	FIRE"S"	MEXICO	5737	78	0	5R	20S	80
24	{(DURUM46 X BD1548-N262. B/G...	MEXICO	5730	80	TMS	TR	5MR	85
23	ERP"S"-GS"S" X BOY"S"	MEXICO	5660	79	20S	TR	5MS-S	85
4	CHI"S"	MEXICO	5639	80	0	TMS	5MS-S	80
27	YAVAROS 79	MEXICO	5605	82	0	TR	TMR	80
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	5514	80	0	TR	TMR	80
10	LDS MUT-TEAL"S"	MEXICO	5480	81	0	TS	5MS-MR	75
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	5473	79	10MS	10MS	5MS-S	80
3	WIN"S"	MEXICO	5473	81	0	TMR	5MS-S	85
30	LOCAL CHECK		5403	81	TMS	TR	40S	90
14	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	5389	81	0	TR	10MS-S	70
25	{(DURUM46 X BD1548-N262. B/G...	MEXICO	5362	79	TMR	TR	TMR	75
6	ROK"S"	MEXICO	5362	78	TMS	TR	5MS-S	80
29	CANANEA 79	MEXICO	5334	66	30MS	0	TR	105
1	CR"S"-GS"S"	MEXICO	5313	79	0	TR	0	85
12	SWAN"S"	MEXICO	5237	80	TMR	TMS	5MR	75
5	ROK"S"	MEXICO	5209	78	0	TR	5MS-S	80
26	MEXICALI 75	MEXICO	5188	79	40S	TMS	TMR	80
9	ERPEL"S"-RUSD	MEXICO	5188	80	0	TR	TS	80
20	SHWA"S"-YAV"S"	MEXICO	5167	79	0	TMR	10MS-S	80
15	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	5153	81	0	TR	20S	75
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	5091	78	0	TMR	30S	80
16	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	5049	80	0	TS	30S	75
8	ENTE"S"-MEXI"S"	MEXICO	5049	77	10S	TR	5MR-MS	85
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	4820	80	0	TR	10MR-MS	75
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	4514	79	10MS	TMR	10MS-S	70
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	4063	73	0	TR	70S	85
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	3736	76	20S	10MS	40S	70
GRAND MEAN			5253.2	78.9	4.5	1.5	10.9	80.2
STANDARD ERROR OF GRAND MEAN			65.2					
COEFFICIENT OF VARIATION AS PC			11.8					
LSD VARIETY MEANS 5 PC			1011.0					

CORRELATIONS

YIELD KG/HA	TEST WT	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT
	0.38				
	-0.21	-0.44			
	0.01	-0.04	0.09		
	-0.64	-0.25	-0.08	0.01	
	0.28	-0.58	0.25	-0.13	-0.04

STA CATALINA

PROGRAMA CEREALES

LATITUDE	000 22'S	DATE PLANTED	1/21/82	NITROGEN	APPLIED
LONGITUDE	078 33'W	DATE HARVESTED	--/--/--	PHOSPHORUS	APPLIED
ELEVATION	3058 M. ABOVE S. L.	AMOUNT OF MOISTURE	969 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
 SERIOUS DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
 NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF INSECTS. CHEMICAL CONTROL OF WEEDS.
 NO YIELD DATA TAKEN DUE TO POOR ADAPTATION & SOIL PROBLEMS

VAR NO.	VARIETY OR CROSS	ORIGIN	FLOW DAYS	STRP RT. L	FUS GRAM
1	CR"S"-GS"S"	MEXICO	-		0
2	YAV"S"	MEXICO	88		0
3	WIN"S"	MEXICO	88		5
4	CHI"S"	MEXICO	87		1
5	ROK"S"	MEXICO	78		1
6	ROK"S"	MEXICO	88		1
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	88		0
8	ENTE"S"-MEXI"S"	MEXICO	98		1
9	ERPEL"S"-RUSO	MEXICO	97		1
10	LDS MUT-TEAL"S"	MEXICO	98		0
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	98		0
12	SWAN"S"	MEXICO	96		1
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	98		1
14	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	98		5
15	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	98		1
16	FUL"S"-FG"S"/DYCA"S" X RUFF...	MEXICO	95		1
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	88		0
18	FIRE"S"	MEXICO	96	TR	1
19	QUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	92		1
20	SHWA"S"-YAV"S"	MEXICO	86		1
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	96		1
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	96	TR	1
23	ERP"S"-GS"S" X BOY"S"	MEXICO	96		0
24	{(DURUM46 X BD1548-N262. B/G...	MEXICO	98		1
25	{(DURUM46 X BD1548-N262. B/G...	MEXICO	98		5
26	MEXICALI 75	MEXICO	77	5MR	1
27	YAVARDS 79	MEXICO	87	TR	0
28	CIAND 79	MEXICO	79	60MS	0
29	CANANEA 79	MEXICO	77	0	0
30	LOCAL CHECK		77	TR	0
GRAND MEAN			90.9	7.3	1.0
STANDARD ERROR OF GRAND MEAN					
COEFFICIENT OF VARIATION AS PC					
LSD VARIETY MEANS 5 PC					

CORRELATIONS

FLOW DAYS	
STRP RT. L	-0.32
FUS GRAM	0.26 -0.12

Summary for 11th EDYT - 0511 Regional Report

Region I

LOCATIONS: MEXICO--GUANAJUATO. MEXICO--EDO DE MEXICO. MEXICO--SONORA.

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VAR  VARIETY OR CROSS          ORIGIN  YIELD  TEST  FLOW  MAT  STRP  LEAF  PLNT  1000
NO.                                KG/HA  WT   DAYS  DAYS  RT.L  RUST  HT   G.W.
*****
30  LOCAL CHECK                MEXICO  6971   80   79   132   0    1    94   38
26  MEXICALI 75                MEXICO  6743   78   71   126   0    0    89   54
29  CANANEA 79                  MEXICO  6638   67   75   127   0    2   114   44
 7  (RABI"S"/GLL"S" X LDS-RL360... MEXICO  6631   79   76   128   0    5    92   51
19  GUIL"S"--SNJPE"S" X GDO VZ 449 MEXICO  6543   78   81   132   0    0    89   43

 5  ROK"S"                      MEXICO  6475   77   72   126   0    0    84   50
 4  CHI"S"                      MEXICO  6450   80   75   130   0    0    87   51
28  CIANO 79                    MEXICO  6358   78   78   133   10   1    87   35
 8  ENTE"S"--MEXI"S"           MEXICO  6196   77   81   131   0    1    91   44
27  YAVAROS 79                  MEXICO  6188   80   80   128   0    0    88   52

13  GTA"S"--RABI"S" X USAIV718/S... MEXICO  6185   76   76   131   0    0    85   51
20  SHWA"S"--YAV"S"             MEXICO  6172   78   82   131   0    0    86   45
 3  WIN"S"                      MEXICO  6151   77   76   128   0    0    88   52
15  FUL"S"--FG"S"/OYCA"S" X RUFF... MEXICO  6116   80   81   130   0    0    85   44
 2  YAV"S"                      MEXICO  6112   82   79   127   0    0    89   49

16  FUL"S"--FG"S"/OYCA"S" X RUFF... MEXICO  6073   80   78   129   0    0    86   53
11  TEAL"S"--WIN"S" X GAD"S"     MEXICO  6027   80   79   129   0    0    84   51
 6  ROK"S"                      MEXICO  6007   78   79   126   0    0    84   46
12  SWAN"S"                     MEXICO  5986   81   77   131   0    2    85   49
24  ((DURUM46 X BD1548-N262. B/G... MEXICO  5918   78   83   132   0    0    90   43

23  ERP"S"--GS"S" X BOY"S"       MEXICO  5882   76   83   132   0    1    94   48
14  FUL"S"--FG"S"/OYCA"S" X RUFF... MEXICO  5814   80   77   131   0    0    82   50
18  FIRE"S"                     MEXICO  5783   78   83   -     0    0    84   48
 9  ERPEL"S"--RUSO              MEXICO  5761   78   85   132   0    0    88   51
17  YEL"S"/RABI"S"--COCOBAS 10 X... MEXICO  5558   75   78   133   0    0    81   50

25  ((DURUM46 X BD1548-N262. B/G... MEXICO  5414   76   87   132   0    0    82   40
21  YEL"S"--SAPI"S"/BD1814 X BD1... MEXICO  5346   78   83   134   0    6    80   45
22  RUFF"S"--FG"S" X MEXI75/SHWA... MEXICO  4840   76   83   130   0    1    82   49
10  LDS MUT-TEAL"S"             MEXICO  4734   71   78   131   2    0    81   38
 1  CR"S"--GS"S"                MEXICO  4335   74   85   130   0    0    91   48

```

```

SUMMARY MEANS OVER VARIETIES  5980.1  77.3  79.3  130.1  0.4  0.7  87.4  46.8
NUMBER OF LOCATIONS FOR EACH VARIABLE  3    2    3    1    1    1    3    2
NUMBER OF OBSERVATIONS FOR EACH VARIABLE  9    6    7    2    2    1    8    6

```

LOCATIONS: BOLIVIA --COCHABAMBA. CHILE --SANTIAGO. ECUADOR --QUITO. PICHINCHA. BOLIVIA --SANTA CRUZ.

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 %	FUS GRAM	SEP 0-9

30	LOCAL CHECK		3637	81	70	121	1	0	21	81	7	0	3
29	CANANEA 79	MEXICO	3627	66	64	115	12	1	0	89	7	0	0
28	CIANO 79	MEXICO	3617	79	70	118	25	10	8	73	15	0	1
11	TEAL"S"-WIN"S" X GAD"S"	MEXICO	3584	80	78	117	0	0	7	72	15	0	2
6	ROK"S"	MEXICO	3416	78	75	121	1	6	8	75	0	1	2
4	CHI"S"	MEXICO	3377	80	74	120	0	4	4	73	11	1	1
24	((DURUM46 X BD1548-N262. B/G...	MEXICO	3377	80	80	122	1	2	2	78	4	1	1
3	WIN"S"	MEXICO	3354	81	74	119	0	15	15	77	4	5	1
2	YAV"S"	MEXICO	3288	83	79	125	0	3	4	72	7	0	1
7	(RABI"S"/GLL"S" X LDS-RL360...	MEXICO	3273	79	76	120	8	8	6	74	7	0	2
5	ROK"S"	MEXICO	3266	78	67	115	0	2	4	69	18	1	2
9	ERPEL"S"-RUSO	MEXICO	3258	80	83	123	0	5	3	75	4	1	2
12	SWAN"S"	MEXICO	3219	80	78	120	0	6	3	71	7	1	2
1	CR"S"-GS"S"	MEXICO	3200	79	78	129	0	1	0	79	11	0	3
8	ENTE"S"-MEXI"S"	MEXICO	3175	77	81	123	10	4	5	80	22	1	3
14	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	3090	81	79	121	0	9	21	70	7	5	0
10	LDS MUT-TEAL"S"	MEXICO	3067	81	77	116	0	2	3	66	7	0	2
27	YAVAROS 79	MEXICO	3037	82	78	123	0	6	4	73	15	0	1
18	FIRE"S"	MEXICO	3006	78	82	120	0	16	18	74	33	1	2
26	MEXICALI 75	MEXICO	2950	79	69	117	21	1	1	72	11	1	1
25	((DURUM46 X BD1548-N262. B/G...	MEXICO	2916	79	85	125	0	1	1	73	4	5	1
19	GUIL"S"-SNIPE"S" X GDO VZ 449	MEXICO	2914	78	78	117	0	0	29	77	67	1	2
20	SHWA"S"-YAV"S"	MEXICO	2768	79	80	127	0	18	12	74	18	1	2
23	ERP"S"-GS"S" X BOY"S"	MEXICO	2746	79	85	126	20	20	21	75	7	0	2
16	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2626	80	79	120	0	15	35	73	44	1	2
22	RUFF"S"-FG"S" X MEXI75/SHWA...	MEXICO	2558	79	84	124	4	14	10	68	7	1	1
21	YEL"S"-SAPI"S"/BD1814 X BD1...	MEXICO	2557	80	84	125	0	2	7	68	0	1	2
15	FUL"S"-FG"S"/OYCA"S" X RUFF...	MEXICO	2505	81	83	121	0	20	25	73	55	1	2
17	YEL"S"/RABI"S"-COCOBAS 10 X...	MEXICO	2263	76	75	116	20	20	37	70	44	0	1
13	GTA"S"-RABI"S" X USAIV718/S...	MEXICO	2246	73	79	113	0	0	63	74	82	1	3
SUMMARY MEANS OVER VARIETIES			3064.0	78.9	77.5	120.4	4.1	6.8	12.3	74.0	18.0	1.0	1.7
NUMBER OF LOCATIONS FOR EACH VARIABLE			3	1	3	2	2	2	2	3	1	1	1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE			9	1	7	6	2	3	3	7	3	1	3

Summary for 11th EDYT - 0511 Regional Report

Region III

LOCATIONS: PORTUGAL--ELVAS . SPAIN --MADRID. YUGOSLAVIA--MACEDONIA . SPAIN --CADIZ . ITALY --ROME.

```

*****
VAR VARIETY OR CROSS          ORIGIN   YIELD  TEST  FLOW  MAT  PLNT  LODG  1000 POW M  BYDV
NO.                            KG/HA  WT   DAYS DAYS  DAYS HT   %   G.W.  0-9  0-9
*****
28 CIANO 79                    MEXICO   5427   82   144  213   84   12   42   3   3
29 CANANEA 79                  MEXICO   5313   70   139  213  158   15   43   0   3
5  ROK"S"                      MEXICO   4991   80   143  212   79   12   49   0   4
30 LOCAL CHECK                 MEXICO   4911   82   148  214   85   10   62   0   3
6  ROK"S"                      MEXICO   4720   80   151  214   82   17   47   1   3

11 TEAL"S"-WIN"S" X GAD"S"    MEXICO   4649   81   149  214   82   15   52   0   3
18 FIRE"S"                    MEXICO   4474   80   153  216   81   17   52   1   2
19 GUIL"S"-SNIPE"S" X GDO VZ 449 MEXICO   4306   80   150  215   79   15   49   2   3
3  WIN"S"                      MEXICO   4239   81   146  213   83   15   48   0   3
24 ((DURUM46 X BD1548-N262.B/G... MEXICO   4223   81   153  214   82   13   46   4   2

26 MEXICALI 75                 MEXICO   4211   80   143  212   82   15   56   0   3
23 ERP"S"-GS"S" X BOY"S"      MEXICO   4207   81   152  215   81   15   50   1   2
9  ERPEL"S"-RUSO              MEXICO   4197   81   153  215   79   15   55   0   2
20 SHWA"S"-YAV"S"            MEXICO   4128   80   148  214   77   15   48   2   3
17 YEL"S"/RABI"S"-COCOBAS 10 X... MEXICO   4106   79   151  216   79   12   55   5   2

4  CHI"S"                      MEXICO   4085   82   147  213   85   15   55   5   2
12 SWAN"S"                    MEXICO   4070   83   148  212   78   10   51   1   2
8  ENTE"S"-MEXI"S"            MEXICO   3943   79   151  214   84   17   48   0   4
25 ((DURUM46 X BD1548-N262.B/G... MEXICO   3843   79   154  215   75   10   44   1   3
27 YAVAROS 79                 MEXICO   3605   83   147  214   80   17   53   0   3

22 RUFF"S"-FG"S" X MEXI75/SHWA... MEXICO   3498   82   150  214   81   15   54   0   3
10 LDS MUT-TEAL"S"           MEXICO   3487   83   150  215   72   12   51   0   2
2  YAV"S"                      MEXICO   3469   83   150  215   81   17   52   0   3
14 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO   3316   83   151  215   71   12   52   0   3
13 GTA"S"-RABI"S" X USAIV718/S... MEXICO   3096   78   148  212   76   17   53   1   4

16 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO   2996   81   152  214   75   15   55   0   3
7  (RABI"S"/GLL"S" X LDS-RL360... MEXICO   2944   81   149  216   83   13   53   0   3
15 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO   2748   83   151  214   73   13   55   0   3
1  CR"S"-GS"S"                 MEXICO   2744   80   154  218   83   15   54   0   2
21 YEL"S"-SAPI"S"/BD1814 X BD1... MEXICO   2368   80   155  215   72   17   50   0   2

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SUMMARY MEANS OVER VARIETIES 3943.8 80.5 149.3 214.2 82.1 14.3 50.8 0.9 2.8
NUMBER OF LOCATIONS FOR EACH VARIABLE 5 4 4 3 5 1 2 1 1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE 15 10 12 9 15 3 6 3 3

```

LOCATIONS: TUNISIA --TUNIS . EGYPT ---SOHAG .

```

*****
VAR VARIETY OR CROSS          ORIGIN    YIELD FLOW  MAT PLNT 1000
NO.                            KG/HA  DAYS  DAYS  HT  G.W.
*****
29 CANANEA 79                 MEXICO    6754    90   155   119   38
 9 ERPEL"S"-RUSO             MEXICO    6387   101   147   89   53
 4 CHI"S"                    MEXICO    6319    95   149   100   52
30 LOCAL CHECK                MEXICO    6229    92   157   98   50
11 TEAL"S"-WIN"S" X GAD"S"   MEXICO    6220    99   150   93   52

 3 WIN"S"                    MEXICO    6192    93   149   93   45
28 CIANO 79                  MEXICO    6140    90   154   100   38
 5 ROK"S"                    MEXICO    6102    88   147   83   52
 8 ENTE"S"-MEXI"S"          MEXICO    6066   100   147   100   46
 6 ROK"S"                    MEXICO    6048   100   149   101   44

19 GUIL"S"-SNIPE"S" X GDO VZ 449 MEXICO    6046    98   154   103   45
23 ERP"S"-GS"S" X BOY"S"    MEXICO    6036   100   150   103   48
27 YAVAROS 79                MEXICO    5910    97   150   94   26
26 MEXICALI 75               MEXICO    5872   100   150   93   53
20 SHWA"S"-YAV"S"           MEXICO    5868    97   150   95   43

17 YEL"S"/RABI"S"-COCOBAS 10 X... MEXICO    5857    97   150   93   52
 7 (RABI"S"/GLL"S" X LDS-RL360... MEXICO    5833    97   149   101   54
12 SWAN"S"                   MEXICO    5801    93   149   93   51
14 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO    5737    97   150   83   49
18 FIRE"S"                   MEXICO    5599   102   154   93   53

10 LDS MUT-TEAL"S"          MEXICO    5519    98   149   80   43
24 ((DURUM46 X BD1548-N262. B/Q... MEXICO    5405   101   149   103   42
16 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO    5404    95   152   93   52
 2 YAV"S"                    MEXICO    5374    98   152   97   41
22 RUFF"S"-FG"S" X MEXI75/SHWA... MEXICO    5104    99   150   88   59

13 GTA"S"-RABI"S" X USAIV718/S... MEXICO    5097    91   147   88   54
15 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO    4916    95   149   85   54
 1 CR"S"-GS"S"               MEXICO    4896   103   157   104   44
21 YEL"S"-SAPI"S"/BD1814 X BD1... MEXICO    4828   103   152   85   54
25 ((DURUM46 X BD1548-N262. B/Q... MEXICO    4780   104   155   88   38

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SUMMARY MEANS OVER VARIETIES    5744.4  96.9 150.7  94.2  47.5
NUMBER OF LOCATIONS FOR EACH VARIABLE    2    2    1    2    1
NUMBER OF OBSERVATIONS FOR EACH VARIABLE    6    2    1    2    1

```

Summary for 11th EDYT - 0511 Regional Report

Region V

LOCATIONS: KENYA --RIFT VALLEY ZIMBABWE--HARARE SOUTH AFRICA--CAPE PROVINCE

```

*****
VAR  VARIETY OR CROSS          ORIGIN   YIELD  TEST  LEAF  STEM  PLNT  MOIST  POW  M
NO.   KG/HA  WT   RUST  RUST  HT    %    O-9
*****
  5  ROK"S"                    MEXICO   6380   69   10   70   78    9    1
  4  CHI"S"                    MEXICO   5951   70   15   80   88   10    8
29  CANANEA 79                MEXICO   5852   61   12    0   93    9    0
30  LOCAL CHECK                MEXICO   5775   73   15    3   65    9    -
28  CIANO 79                   MEXICO   5769   70   12    1   80   10    0

  2  YAV"S"                    MEXICO   5692   71    4   10   83   10    5
  3  WIN"S"                    MEXICO   5657   70    8   80   80    9    8
26  MEXICALI 75                MEXICO   5582   70   10   70   83   10    1
  6  ROK"S"                    MEXICO   5559   69   10   80   78    9    7
  9  ERPEL"S"-RUSD             MEXICO   5383   70   24   20   83    9    9

27  YAVAROS 79                MEXICO   5370   71    4   40   78    9    2
23  ERP"S"-GS"S" X BOY"S"     MEXICO   5305   69   12    5   88   10    7
20  SHWA"S"-YAV"S"           MEXICO   5270   71    4   40   73    9    -
10  LDS MUT-TEAL"S"          MEXICO   5238   73    4    5   75    9    -
14  FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO   5164   74    4   10   73    9    1

12  SWAN"S"                   MEXICO   5157   72    6   70   83    9    7
19  GUIL"S"-SNIPE"S" X QDD VZ 449 MEXICO   5157   69    5   60   80    9    7
15  FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO   5046   74    4    5   78    9    2
24  ((DURUM46 X BD1548-N262. B/G... MEXICO   5012   67    6   70   88    9    8
  7  (RABI"S"/GLL"S" X LDS-RL360... MEXICO   5012   70   15   70   83    9    7

  8  ENTE"S"-MEXI"S"          MEXICO   4992   67    8   50   88    9    5
16  FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO   4990   75    1    5   78    9    1
22  RUFF"S"-FG"S" X MEXI75/SHWA... MEXICO   4973   73    4    5   83    9    6
25  ((DURUM46 X BD1548-N262. B/G... MEXICO   4943   66   16   50   78    9    9
11  TEAL"S"-WIN"S" X QAD"S"     MEXICO   4779   71    8   40   83    9    8

17  YEL"S"/RABI"S"-COCOBAS 10 X... MEXICO   4504   68    4   60   78    9    8
13  GTA"S"-RABI"S" X USAIV718/S... MEXICO   4437   68    4   80   75    8    8
18  FIRE"S"                   MEXICO   4301   69    8   50   78    9    7
21  YEL"S"-SAPI"S"/BD1814 X BD1... MEXICO   4074   70    8   30   83   10    9
  1  CR"S"-GS"S"               MEXICO   3454   62    5   60   88   10    5

          SUMMARY MEANS OVER VARIETIES      5159.2  69.7   8.3  40.6  80.3   9.2   5.4
          NUMBER OF LOCATIONS FOR EACH VARIABLE      3      3      1      1      2      1      1
          NUMBER OF OBSERVATIONS FOR EACH VARIABLE      9      5      1      1      2      1      1

```

LOCATIONS: ISRAEL--R. D. SDE-GAT . CYPRUS--LAXIA . SYRIA --ALEPPO. JORDAN-- . TURKEY--IZMIR

```

*****
VAR VARIETY OR CROSS          ORIGIN      YIELD TEST FLOW PLNT 1000
NO.                            KG/HA   WT   DAYS  HT   G.W.
*****
  4 CHI"S"                     MEXICO      4281   80    96    84    51
  6 ROK"S"                     MEXICO      4077   79   104    83    47
  9 ERPEL"S"-RUSO              MEXICO      3910   79   107    82    49
  5 ROK"S"                     MEXICO      3827   78    94    79    51
 24 ((DURUM46 X BD1548-N262. B/G... MEXICO      3810   77   110    84    34

 28 CIANO 79                   MEXICO      3800   78    99    82    31
 30 LOCAL CHECK                MEXICO      3800   78    93    84    53
 29 CANANEA 79                 MEXICO      3775   68    92   102    38
 12 SWAN"S"                    MEXICO      3772   82   100    81    51
 19 GUIL"S"-SNIPE"S" X GDD VZ 449 MEXICO      3742   78   102    82    42

 10 LDS MUT-TEAL"S"           MEXICO      3669   80   101    80    42
 22 RUFF"S"-FG"S" X MEXI75/SHWA... MEXICO      3650   81    99    77    52
 18 FIRE"S"                    MEXICO      3617   78   109    83    46
 17 YEL"S"/RABI"S"-COCOBAS 10 X... MEXICO      3613   77   100    80    49
  3 WIN"S"                     MEXICO      3607   78    97    81    47

  8 ENTE"S"-MEXI"S"           MEXICO      3580   77   104    88    42
 27 YAVAROS 79                 MEXICO      3554   81   100    79    49
  2 YAV"S"                     MEXICO      3534   83   100    80    52
 23 ERP"S"-GS"S" X BOY"S"      MEXICO      3461   78   107    87    43
 16 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO      3448   82   107    80    58

 11 TEAL"S"-WIN"S" X GAD"S"    MEXICO      3447   79   101    80    45
 20 SHWA"S"-YAV"S"            MEXICO      3383   79   102    79    41
 25 ((DURUM46 X BD1548-N262. B/G... MEXICO      3356   71   112    79    29
 26 MEXICALI 75                MEXICO      3338   78    94    81    47
 14 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO      3289   81   107    78    48

 13 GTA"S"-RABI"S" X USAIV718/S... MEXICO      3203   78   101    76    49
 21 YEL"S"-SAPI"S"/BD1814 X BD1... MEXICO      3142   79   111    75    42
 15 FUL"S"-FG"S"/OYCA"S" X RUFF... MEXICO      3042   82   107    78    58
  7 (RABI"S"/GLL"S" X LDS-RL360... MEXICO      2871   79    99    85    49
  1 CR"S"-GS"S"                MEXICO      2830   79   108    85    47

          SUMMARY MEANS OVER VARIETIES      3547.6  78.6 101.9  81.8 46.1
          NUMBER OF LOCATIONS FOR EACH VARIABLE      5      1      2      4      1
          NUMBER OF OBSERVATIONS FOR EACH VARIABLE    15      3      6      9      3

```




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