CIMMYT

Results of the Third Elite Selection Wheat Yield Trial (ESWYT) 1981-82

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

TABLE ABBREVIATION	VARIABLE NAME	NOMBRE DE LA VARIABLE	NOM DE LA VARIABLE
ALT BLT	Alternaria blight (0–9 scale)	Tizón por Alternaria (escala 0–9)	Alternaria (échelle 0–9)
ANT DMGE	Ant Damage percentage	Porcentaje de daño de hormigas	Dégâts dûs aux fourmis en pourcentage
APHD DMGE	Aphid damage percentage	Porcentaje de daño de áfidos	Dégâts dûs aux pucerons en pourcentage
ARMY WORM	Army worm percentage	Porcentaje de gusano cogollero	Chenille soldat en pourcentage
BACT STRP	Bacterial stripe (0–9 scale)	Rayado bacteriano (escala 0–9)	Rayée bacterienne (échelle 0–9)
BACT B	Bacterial blight (0–9 scale)	Tizón bacteriano (escala 0–9)	Tache bacterienne (échelle 0–9)
BARL S	Barley stripe (0-9 scale)	Rayado de la cebada (escala 0–9)	Moucheture de l'orge (échelle 0–9)
BIRD DMGE	Bird damage percentage	Porcentaje de daño de pájaros	Dégâts dûs aux oiseaux en pourcentage
BYD	Barley yellow dwarf (0–9 scale)	Enanismo amarillo de la cebada (escala 0–9)	Virose jaune de l'orge (échelle 0–9)
CHECK MARK	Check mark	Marca	Signal
COVD SMUT	Covered smut percentage	Porcentaje de carbón cubierto	Charbon couvert en pourcentage
EARS/M^2	Ears per square meter	Espigas o mazorcas por metro cuadrado	Epis par mètre^2
FALL NO	Falling number (seconds)	Actividad alfa amilasa (segundos)	Activité du amylase (en secondes)
FERT %	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 níveo (escala 0–9)	Moisissure de la neige (échelle 0–9)
FUS NIV	Fusarium nivale spot	Manche foliar (Fusarium nivale)	Tache de la feuille (Fusarium nivale)
FUS WILT	Fusarium wilt percentage	Porcentaje de marchitez por Fuserium	Fusarium en pourcentage
GERM %	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 (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 le 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 %	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 %	Moisture percentage	Porcentaje de humedad	Humidité en pourcentage
NECK BRK	Neck break percentage	Porcentaje de rotura del cuello	Cassura 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 folier (Pyrenophora tritici-repentis)	Tache de la feuille (Pyrenophora tritici-repentis)
PLNT DENS	Plant density (stems/square meter)	Densidad de plantas (tallos/metro cuadrado)	Population des plantes (tiges/mètre^2)
PLNT HT	Height (cm)	Altura (cm)	Hauteur (cm)
PLNT WT	Plant weight (grams)	Peso de la planta (gramos)	Poids de la plante (grames)
POWD	Powdery mildew (0–9 scale)	Mildiú polvoriento (escala 0–9)	Oidium (échelle 0–9)
PROT %	Protein percentage	Porcentaje de proteína	Protein en pourcentage
ROOT ROT	Root rot percentage	Porcentaje de pudrición de maíz	Putréfaction du maïs en pourcentage
SCAB %	Scab percentage	Porcentaje de roña	Fusarium de l'épi en pourcentage
SCLD	Scald (0–9 scale)	Porcentaje de escaldadura (escala 0–9)	Rhyncosporium (échelle 0–9)
SDMT INDX	Sedimantation index (cc)	Indice de sedimentación (cc)	Indice de sédimentation (cc)
SEED TYPE	Seed type (L=large, M=medium, S=small)	Tipo de semilla (L=grande, M=mediano, S=pequeño)	Type de grain (L=large, M=moyen, S=petit)
SEPT NODO	Septoria nodorum (0–9 scale)	Septoria nodorum (escala 0–9)	Septoria nodorum (échelle 0–9)
SEPT SPP.	Septoria spp. (0–9 scale)	Septoria spp. (escala 0–9)	Septoria spp. (échelle 0–9)
SEPT TRIT	Septoria tritici (0–9 scale)	Septoria tritici (escala 0–9)	Septoria tritici (échelle 0–9)
SHTR HEAD	Shattering head (%)	Porcentaje de desgrane	Chute de grains en pourcentage
SMLS SMUT	Semi-loose smut percentage	Porcentaje de carbón semi-volador	Charbon semi-nu en pourcentage
SPOT BLOT	Spot blotch (0–9 scale)	Tizón de la hoja (escala 0–9)	Tache de la feuille (échelle 0–9)
SPOT BLOTCH/HELM SATV	Spot blotch (0–9 scale)	Tizón de la hoja (escala 0–9)	Tache de la feuille (échelle 0–9)
STEM RUST	Stem rust (Cobb scale)	Roya del tallo (escala de Cobb)	Rouille noire (échelle de Cobb)
STRP RT.H	Stripe rust (head) percentage	Porcentaje de roya lineal (espiga)	Rouille jaune sur l'épi en pourcentage
STRP RT. L	Stripe rust (leaf) (Cobb scale)	Roya lineal (hoja) (escala de Cobb)	Rouille jaune sur feuilles (échelle de Cobb)
TAN S	Tan spot (0–9 scale)	Mancha de cobre (escala 0–9)	Tache de cuivre (échelle 0–9)
TEST WT	Test weight (kg/hl)	Peso hectolítrico (kg/hl)	Poids specifique (kg/hl)
1000 G.W.	1000 grain weight (grams)	Peso de 1000 granos (gramos)	Poids de 1000 grains (grames)
YELL BERR	Yellow berry percentage	Porcentaje de panza blanca	Mitadinage en pourcentage
YIELD KG/HA	Yield kg/ha	Rendimiento kg/ha	Rendement kg/ha

RESULTS OF THE 3RD ELITE SELECTION WHEAT YIELD TRIAL

(ESWYT) 1981 - 82

The 3rd Elite Selection Wheat Yield Trial (ESWYT) was sent in September 1981, to be grown by cooperators in their spring season of 1982. Twenty-seven nurseries went to cooperators in 23 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-two of the cooperators receiving the 3rd ESWYT 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 (origin included) of the 3rd ESWYT entries

Entry No.	Variety or Cross and Pedigree	Origin
1	F12.71-COC SWM-5784-17Y-1M-4Y-5M-1Y-0B	México
2	BUC "S" CM-31678-R-4Y-2M-500Y-503M-500Y-500M-501Y-0M	México
3	VEE # 1 CM-33027-F-8M-1Y-8M-1Y-2M-0Y	México
4	VEE # 3 CM-33027-F-12M-1Y-6M-0Y	México
5	VEE "S" CM-33027-F-15M-500Y-0M-98B-0Y	México
6	BOW "S" CM-33203-K-10M-7Y-3M-2Y-1M-0Y	México
7	CIANO 79	México
8	HAHN "S" CM-33682-L-1Y-1Y-4M-4Y-100B-502Y-0M	México
9	HAHN "S" CM-33682-L-1Y-1Y-4M-4Y-100B-503Y-0M	México
10	HAHN "S" CM-33682-L-1Y-1Y-8M-1Y-100B-0Y	México
11	TSH "S" CM-34742-E-2M-5Y-3M-500Y-100B-504Y-0M	México
12	NACOZARI 76	México
13	MOR "S" CM-37130-15Y-1M-3Y-0M	México
14	SAP "S" - MON "S" CM-40392-17M-1Y-1M-0Y	México
15	PAVON 76	México
16	NKT "S" CM-40454-1M-4Y-2M-3Y-0M	México
17	BAYA "S" CM-42374-1Y-1M-2Y-0M	México
18	CAR 422 - ANA SWM-4610-2Y-20M-1Y-0M	México
19	CNO-MFD X MON "S" CM-43339-C-1Y-1M-2Y-1M-1Y-0B	México
20	JUP-EMU "S" X GJO "S" CM-43598-II-8Y-1M-3Y-1M-3Y-0B	México
21	TESIA 79	México
22	LIRA "S" CM-43903-H-4Y-1M-1Y-3M-3Y-0B	México
23	R37-GHL 121 X KAL-BB SWM-4275-41M-1Y-4M-1Y-0M	México
24	TAN "S" CM-30697-2M-8Y-7M-1Y-1B-0Y	México
25	TAN "S" CM-30697-2M-14Y-0M-97B-0Y	México
26	HAR "S" CM-33435-P-1M-6Y-1M-1Y-1M-0Y	México
27	SPRW "S" - GJO "S" CM-35195-1M-3Y-1M-1Y-1B-0Y	México
28	YACO "S" CM-41195-A-13M-2Y-3M-1Y-1M-0Y	México
29	MN 72131 - PVN "S" CM-42402-30Y-1M-1Y-3M-2Y-0B	México
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 5 8
3	AFRICA	TUNISIA	TUNIS	1 3 9
4	ASIA	BANGLADESH	JOYDEBPUR	1 2 3 4 9 70
5	ASIA	PAKISTAN	PUNJAB	1 3 4 5 7 8 9 10
6	EUROPE	PORTUGAL	ELVAS	1 2 3 4 9 10
7	EUROPE	SPAIN	CADIZ	1 2 3 9
8	MIDDLE EAST	ISRAEL	R. D. SDE-GAT	1 2 3 9 13
9	MIDDLE EAST	SYRIA	ALEPPO	1 3 4 9 25
10	MIDDLE EAST	TURKEY	IZMIR	1
11	NORTH AMERICA	CANADA	ALBERTA	1 2 3 4 9 13
12	NORTH AMERICA	MEXICO	EDO DE MEXICO	1 3 4 9
13	NORTH AMERICA	MEXICO	EDO DE MEXICO	1 3 5 9
14	NORTH AMERICA	MEXICO	SONORA	1 2 3 4 9
15	NORTH AMERICA	U. S. A.	MINNESOTA	1 2 3 9
16	NORTH AMERICA	U. S. A.	OREGON	1 2
17	SOUTH AMERICA	ARGENTINA	CORDOBA	1 2 7 8 9 13 62
18	SOUTH AMERICA	BOLIVIA	COCHABAMBA	1 3 4 9 62
19	SOUTH AMERICA	BRAZIL	PARANA	1 2 3 4 9 10 11 13 36
20	SOUTH AMERICA	CHILE	CHILLAN, NUBLE	1 2 3 5 7 9
21	SOUTH AMERICA	CHILE	SANTIAGO	1 2 4 5 7 8 9
22	SOUTH AMERICA	ECUADOR	QUITO, PICHINCHA	1 2 3 5 6 9

*VARIABLE IDENTIFICATIONS

1	YIELD KG/HA	2	TEST WT	3	FLOW DAYS	4	MAT DAYS	5	STRP RT. L	6	STRP RT. H
7	LEAF RUST	8	STEM RUST	9	PLNT HT	10	LODG %	11	SHTR %	13	1000 G. W.
25	FRST DMGE	36	SCAB %	62	SEP T 0-9	70	HEL S 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. L	STRP RT. H	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	1000 G. W.	FRST DMGE	SCAB %
4	VEE #3	MEXICO	5039	76	90	137	1	9	1	1	83	13	10	32	67	20
5	VEE"S"	MEXICO	5010	75	84	131	1	1	9	0	85	10	30	36	59	20
30	LOCAL CHECK		4925	76	82	132	20	0	10	3	85	24	-	33	34	20
15	PAVON 76	MEXICO	4881	77	86	133	12	1	39	3	90	24	90	33	38	20
17	BAYA"S"	MEXICO	4718	75	85	131	1	20	20	1	86	38	20	34	46	20
3	VEE #1	MEXICO	4686	77	90	137	2	0	3	2	87	10	-	34	63	20
22	LIRA"S"	MEXICO	4668	77	84	131	1	0	1	0	79	38	-	36	63	20
6	BOW"S"	MEXICO	4595	78	90	138	1	0	2	0	84	23	-	32	59	20
10	HAHN"S"	MEXICO	4590	77	97	142	0	1	4	1	81	15	-	39	54	20
18	CAR422-ANA	MEXICO	4590	75	90	135	3	1	4	3	81	14	20	34	50	20
2	BUC"S"	MEXICO	4574	76	86	136	12	20	12	4	85	17	30	34	71	20
7	CIANO 79	MEXICO	4570	76	85	135	13	50	10	10	81	13	80	31	67	20
28	YACO"S"	MEXICO	4543	74	81	129	9	60	1	0	82	10	90	34	67	20
21	TESIA 79	MEXICO	4540	76	83	131	18	60	2	8	80	42	10	32	63	20
12	NACOZARI 76	MEXICO	4508	76	82	130	40	99	36	3	83	19	40	32	50	20
23	R37-CHL 121 X KAL-BB	MEXICO	4501	78	84	134	6	30	3	10	82	10	30	29	63	20
19	CNO-MFD X MON"S"	MEXICO	4501	76	86	132	7	0	1	6	99	23	30	38	54	20
9	HAHN"S"	MEXICO	4481	76	96	142	0	1	2	0	78	9	-	37	42	20
20	JUP-EMU"S" X OJO"S"	MEXICO	4442	78	79	131	27	10	2	9	75	4	90	37	50	20
16	NKT"S"	MEXICO	4424	75	98	142	7	30	35	3	89	17	-	34	34	20
25	TAN"S"	MEXICO	4383	77	88	135	6	10	15	0	90	29	-	36	46	20
24	TAN"S"	MEXICO	4377	77	81	130	10	1	18	0	88	29	10	36	50	20
8	HAHN"S"	MEXICO	4365	76	96	142	0	1	8	0	78	7	-	40	42	20
29	MN 72131-PVN"S"	MEXICO	4363	79	86	132	22	1	0	2	85	21	-	39	63	20
1	F12. 71-COC	MEXICO	4307	77	91	139	3	1	3	0	77	4	-	37	67	40
13	MOR"S"	MEXICO	4289	77	84	131	2	10	26	1	68	5	30	35	50	40
26	HAR"S"	MEXICO	4288	79	92	139	4	40	1	2	97	31	-	30	50	40
11	TSH"S"	MEXICO	4254	76	85	133	14	40	2	28	90	15	10	36	54	40
27	SPRW"S"-OJO"S"	MEXICO	4177	77	90	138	26	60	3	11	92	39	-	32	17	20
14	SAP"S"-MON"S"	MEXICO	4117	76	87	135	15	5	0	13	90	25	20	33	50	20
	SUMMARY MEANS OVER VARIETIES		4523.5	76.3	87.4	134.7	9.3	18.4	9.1	4.0	84.3	19.1	37.6	34.6	52.8	22.7
	NUMBER OF LOCATIONS FOR EACH VARIABLE		22	14	17	11	6	1	4	4	19	3	1	5	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		64	22	37	20	9	1	4	4	42	7	1	7	3	1

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.
NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF INSECTS. CHEMICAL CONTROL OF WEEDS.
LOCAL CHECK: L. 2188/1131

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	1000 G. W.
12	NACOZARI 76	MEXICO	7533	83	151	100	38
8	HAHN"S"	MEXICO	7500	105	154	92	46
10	HAHN"S"	MEXICO	7433	105	155	93	51
2	BUC"S"	MEXICO	7433	92	157	95	39
3	VEE #1	MEXICO	7400	97	154	95	40
19	CNO-MFD X MON"S"	MEXICO	7233	92	148	115	43
30	LOCAL CHECK		7217	87	152	98	46
13	MOR"S"	MEXICO	7117	97	149	85	39
15	PAVON 76	MEXICO	7100	93	147	100	35
9	HAHN"S"	MEXICO	7067	102	155	90	42
6	BOW"S"	MEXICO	7000	105	157	107	36
1	F12. 71-COC	MEXICO	6917	94	155	93	43
11	TSH"S"	MEXICO	6867	103	152	110	41
28	YACO"S"	MEXICO	6817	89	150	98	40
18	CAR422-ANA	MEXICO	6750	91	145	95	39
20	JUP-EMU"S" X GJO"S"	MEXICO	6717	82	151	90	43
14	SAP"S"-MON"S"	MEXICO	6600	91	149	100	36
7	CIANO 79	MEXICO	6467	92	153	95	46
21	TESIA 79	MEXICO	6450	91	148	97	44
26	HAR"S"	MEXICO	6383	103	154	130	35
4	VEE #3	MEXICO	6367	100	152	95	37
22	LIRA"S"	MEXICO	6233	89	145	100	41
24	TAN"S"	MEXICO	6200	89	147	112	42
17	BAYA"S"	MEXICO	6067	95	145	100	37
23	R37-GHL 121 X KAL-BB	MEXICO	6033	98	149	102	35
5	VEE"S"	MEXICO	6000	92	150	105	45
25	TAN"S"	MEXICO	5850	98	152	115	39
16	NKT"S"	MEXICO	5633	105	155	112	43
27	SPRW"S"-GJO"S"	MEXICO	5350	105	156	118	32
29	MN 72131-PVN"S"	MEXICO	4950	95	147	105	47
		GRAND MEAN	6622.8	95.3	151.1	101.4	40.6
		STANDARD ERROR OF GRAND MEAN	111.8				
		COEFFICIENT OF VARIATION AS PC	16.0				
		LSD VARIETY MEANS 5 PC	1733.3				

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	-0.14			
MAT	DAYS	0.25	0.53		
PLNT	HT	-0.48	0.28	0.05	
1000	G. W.	0.14	-0.11	0.04	-0.33

TABLE 2 AFRICA KENYA RIFT VALLEY

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.
MODERATE DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.
LOCAL CHECK: KPAA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	STRP RT.L	STEM RUST
4	VEE #3	MEXICO	5338	72	10MS	0
5	VEE"S"	MEXICO	5292	75	20MS	0
16	NKT"S"	MEXICO	5263	74	5MS	10S
30	LOCAL CHECK		4892	76	TR	0
23	R37-GHL 121 X KAL-BB	MEXICO	4788	78	0	40S
29	MN 72131-PVN"S"	MEXICO	4688	79	0	TMS
19	CNO-MFD X MON"S"	MEXICO	4508	75	10MS	20S
17	BAYA"S"	MEXICO	4442	75	TR-MR	TR
10	HAHN"S"	MEXICO	4354	77	0	TMS
21	TESIA 79	MEXICO	4304	76	TMR	10S
28	YACO"S"	MEXICO	4288	74	0	TS
18	CAR422-ANA	MEXICO	4058	75	10R-MR	10S
7	CIANO 79	MEXICO	3958	75	TMR	30S
25	TAN"S"	MEXICO	3946	76	40MS	0
3	VEE #1	MEXICO	3925	71	20MS	TMS
22	LIRA"S"	MEXICO	3838	77	TMR	--
2	BUC"S"	MEXICO	3658	73	0	10S
9	HAHN"S"	MEXICO	3629	73	TMR	0
27	SPRW"S"-GJO"S"	MEXICO	3504	72	60S	20MS
20	JUP-EMU"S" X GJO"S"	MEXICO	3504	76	30MS	30S
8	HAHN"S"	MEXICO	3488	76	TR	0
12	NACOZARI 76	MEXICO	3400	72	40S	10S
26	HAR"S"	MEXICO	3321	80	10MR	10MS
11	TSH"S"	MEXICO	3313	72	30MS	10MR-MS
24	TAN"S"	MEXICO	3254	74	60S	0
6	BOW"S"	MEXICO	3192	74	0	0
1	F12 71-COC	MEXICO	2892	76	0	TMR
13	MOR"S"	MEXICO	2788	72	0	TMS
15	PAVON 76	MEXICO	2654	72	50S	--
14	SAP"S"-MON"S"	MEXICO	1742	72	50S	10MS
		GRAND MEAN	3873.9	74.7	11.5	7.6

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

CORRELATIONS

YIELD KG/HA				
TEST	WT	0.32		
STRP	RT.L	-0.54	-0.44	
STEM	RUST	0.06	0.19	0.08

TABLE 3 AFRICA TUNISIA TUNIS

BEJA
ACPP/INRAT

LATITUDE	036 44'N	DATE PLANTED	11/26/81	NITROGEN	APPLIED
LONGITUDE	009 08'E	DATE HARVESTED	6/25/82	PHOSPHORUS	APPLIED
ELEVATION	0150 M. ABOVE S. L.	AMOUNT OF MOISTURE	609 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION GOOD.
NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
NEGLIGIBLE BIRD DAMAGE. HAND WEEDING.
LOCAL CHECK: DOUGGA 74

VAR NO	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	PLNT HT
4	VEE #3	MEXICO	6653	94	105
6	BOW"S"	MEXICO	6568	96	103
15	PAVON 76	MEXICO	6388	92	105
22	LIRA"S"	MEXICO	6349	93	100
20	JUP-EMU"S" X GJO"S"	MEXICO	6320	86	95
14	SAP"S"-MON"S"	MEXICO	6320	94	110
17	BAYA"S"	MEXICO	6239	93	110
28	YACO"S"	MEXICO	6208	84	98
12	NACOZARI 76	MEXICO	6163	95	103
18	CAR422-ANA	MEXICO	6108	97	93
16	NKT"S"	MEXICO	6057	99	108
23	R37-GHL 121 X KAL-BB	MEXICO	5985	93	105
21	TESIA 79	MEXICO	5945	93	100
5	VEE"S"	MEXICO	5940	92	103
1	F12 71-COC	MEXICO	5868	92	90
7	CIANO 79	MEXICO	5811	93	100
9	HAHN"S"	MEXICO	5787	100	95
19	CNO-MFD X MON"S"	MEXICO	5676	96	123
30	LOCAL CHECK		5568	95	108
29	MN 72131-PVN"S"	MEXICO	5555	94	105
10	HAHN"S"	MEXICO	5544	100	98
13	MOR"S"	MEXICO	5524	90	90
2	BUC"S"	MEXICO	5477	94	113
11	TSH"S"	MEXICO	5212	95	110
24	TAN"S"	MEXICO	5203	85	108
8	HAHN"S"	MEXICO	5089	100	93
3	VEE #1	MEXICO	5051	96	108
25	TAN"S"	MEXICO	4737	90	110
27	SPRW"S"-GJO"S"	MEXICO	4624	98	113
26	HAR"S"	MEXICO	4579	96	118
		GRAND MEAN	5751.6	93.6	103.8

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

CORRELATIONS

	YIELD KG/HA	
FLOW DAYS	-0.18	
PLNT HT	-0.33	0.12

TABLE 4 ASIA BANGLADESH JOYDEBPUR

JOYDEBPUR
CEREAL STAFF

LATITUDE	023 46'N	DATE PLANTED	11/29/81	NITROGEN	APPLIED
LONGITUDE	090 23'E	DATE HARVESTED	3/25/82	PHOSPHORUS	APPLIED
ELEVATION	8 M. ABOVE S.L	AMOUNT OF MOISTURE	573 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
NEGLIGIBLE BIRD DAMAGE. HAND WEEDING. WEATHER NORMAL.
LOCAL CHECK: SONALIKA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	HEL S 0-9
5	VEE"S"	MEXICO	4200	76	64	103	88	0
29	MN 73131-PVN"S"	MEXICO	4162	80	68	102	87	0
15	PAVON 76	MEXICO	4081	80	66	103	90	0
25	TAN"S"	MEXICO	4071	78	72	109	91	0
24	TAN"S"	MEXICO	4051	79	63	101	93	0
19	CNO-MFD X MON"S"	MEXICO	4037	77	65	101	99	0
7	CIANO 79	MEXICO	3851	77	61	102	80	0
17	BAYA"S"	MEXICO	3847	75	62	100	87	0
18	CAR422-ANA	MEXICO	3834	76	72	108	81	0
2	BUC"S"	MEXICO	3820	77	60	104	85	0
4	VEE #3	MEXICO	3797	79	76	112	78	0
12	NACOZARI 76	MEXICO	3709	75	58	95	80	0
26	HAR"S"	MEXICO	3660	81	72	110	90	0
20	JUP-EMU"S" X GJO"S"	MEXICO	3607	76	57	95	74	0
23	R37-GHL 121 X KAL-BB	MEXICO	3597	78	60	99	76	0
28	YACO"S"	MEXICO	3543	74	62	99	82	0
3	VEE #1	MEXICO	3542	79	75	109	85	0
22	LIRA"S"	MEXICO	3514	76	66	101	79	0
30	LOCAL CHECK		3505	76	52	95	88	0
27	SPRW"S"-GJO"S"	MEXICO	3411	77	71	106	91	0
13	MOR"S"	MEXICO	3384	78	67	102	70	0
21	TESIA 79	MEXICO	3332	75	59	97	78	0
6	BOW"S"	MEXICO	3320	79	70	111	84	0
16	NKT"S"	MEXICO	3320	77	77	109	87	0
11	TSH"S"	MEXICO	3280	77	58	99	85	0
14	SAP"S"-MON"S"	MEXICO	3270	77	66	105	92	0
10	HAHN"S"	MEXICO	3109	77	82	117	76	0
1	F12.71-COC	MEXICO	2999	78	75	112	76	0
9	HAHN"S"	MEXICO	1086	-	80	121	73	0
8	HAHN"S"	MEXICO	1035	-	80	120	75	0
		GRAND MEAN	3465.8	77.3	67.2	104.8	83.3	0.0
		STANDARD ERROR OF GRAND MEAN	49.7	0.1			0.3	
		COEFFICIENT OF VARIATION AS PC	13.6	0.8			4.0	
		LSD VARIETY MEANS 5 PC	770.5	1.1			5.4	

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.08				
FLOW	DAYS	-0.49	0.40			
MAT	DAYS	-0.63	0.40	0.95		
PLNT	HT	0.51	0.20	-0.18	-0.21	
HEL S	0-9	-	-	-	-	-

TABLE 5 ASIA PAKISTAN PUNJAB

LYALLPUR
N. I. A. B.

LATITUDE	031 30'N	DATE PLANTED	11/15/81	NITROGEN	APPLIED
LONGITUDE	073 10'E	DATE HARVESTED	5/11/82	PHOSPHORUS	APPLIED
ELEVATION	0213 M. ABOVE S. L.	AMOUNT OF MOISTURE	383 MM	POTASSIUM	--

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

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %
30	LOCAL CHECK		6777	109	159	25MS	15S	0	125	33
5	VEE"S"	MEXICO	6599	115	159	0	0	0	115	7
19	CNO-MFD X MON"S"	MEXICO	6488	115	156	10R	5MR	0	130	30
12	NACOZARI 76	MEXICO	6466	113	157	0	5MR	0	111	23
22	LIRA"S"	MEXICO	6377	111	157	0	0	0	113	10
15	PAVON 76	MEXICO	6199	115	157	0		TR-R	115	7
21	TESIA 79	MEXICO	6177	114	157	0	5MS	5MS	105	20
16	NKT"S"	MEXICO	6110	126	161	0	0	0	114	23
24	TAN"S"	MEXICO	6066	112	153	10MS	0	0	117	30
18	CAR422-ANA	MEXICO	6066	114	156	0	5MR	0	110	17
3	VEE #1	MEXICO	6044	119	159	5R	TR-R	0	108	7
17	BAYA"S"	MEXICO	5866	114	157	0	0	0	111	40
10	HAHN"S"	MEXICO	5644	126	162	0	0	TR-MS	106	20
28	YACO"S"	MEXICO	5555	113	155	0	0	0	104	7
13	MOR"S"	MEXICO	5555	113	157	0	5MS	0	95	0
6	BOW"S"	MEXICO	5444	118	160	TR-R	0	0	106	30
20	JUP-EMU"S" X GJO"S"	MEXICO	5422	109	159	0	5MR	0	103	0
23	R37-GHL 121 X KAL-BB	MEXICO	5399	113	158	0	0	0	114	7
4	VEE #3	MEXICO	5399	121	159	0	0	0	107	13
2	BUC"S"	MEXICO	5288	114	160	10MS	10MS	0	104	20
11	TSH"S"	MEXICO	5288	114	161	10	10MS	25S	116	13
25	TAN"S"	MEXICO	5222	115	153	0	0	0	110	37
27	SPRW"S"-GJO"S"	MEXICO	5155	121	159	25MS	0	0	120	23
8	HAHN"S"	MEXICO	5155	126	161	0	0	0	104	3
9	HAHN"S"	MEXICO	5111	125	161	0	0	0	103	7
1	F12.71-COC	MEXICO	5066	116	161	0	0	0	91	0
26	HAR"S"	MEXICO	5022	111	158	0	0	0	123	27
7	CIANO 79	MEXICO	4866	113	161	25MS	0	0	107	17
29	MN 72131-PVN"S"	MEXICO	4822	121	159	0	0	0	106	27
14	SAP"S"-MON"S"	MEXICO	4466	114	156	0	0	0	114	30
		GRAND MEAN	5637.2	116.0	158.3	2.7	1.6	1.0	110.2	17.6

STANDARD ERROR OF GRAND MEAN 62.6
COEFFICIENT OF VARIATION AS PC 10.5
LSD VARIETY MEANS 5 PC 971.1

CORRELATIONS

YIELD	KG/HA						
FLOW	DAYS	-0.23					
MAT	DAYS	-0.24	0.52				
STRP	RT. L	0.00	-0.17	0.14			
LEAF	RUST	0.32	-0.39	0.11	0.44		
STEM	RUST	-0.08	-0.07	0.21	-0.02	0.38	
PLNT	HT	0.39	-0.22	-0.27	0.33	0.22	0.11
LODG	%	0.07	-0.08	-0.34	0.25	0.12	-0.07	0.54

TABLE 6 EUROPE PORTUGAL ELVAS

PBS ALENTEJO
M. T. BARRADAS ET AL

LATITUDE	038 54'N	DATE PLANTED	11/18/81	NITROGEN	APPLIED
LONGITUDE	007 09'W	DATE HARVESTED	6/17/82	PHOSPHORUS	APPLIED
ELEVATION	0208 M. ABOVE S. L.	AMOUNT OF MOISTURE	366 MM	POTASSIUM	APPLIED

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

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %
2	BUC"S"	MEXICO	3955	84	135	190	85	13
23	R37-GHL 121 X KAL-BB	MEXICO	3913	86	133	186	80	13
30	LOCAL CHECK		3900	87	138	191	85	8
12	NACOZARI 76	MEXICO	3883	85	132	189	86	15
9	HAHN"S"	MEXICO	3830	84	142	191	75	10
15	PAVON 76	MEXICO	3780	87	134	188	87	15
16	NKT"S"	MEXICO	3757	84	145	190	91	10
7	CIANO 79	MEXICO	3630	86	134	188	80	12
27	SPRW"S"-GJO"S"	MEXICO	3342	85	139	191	92	15
10	HAHN"S"	MEXICO	3333	84	143	190	78	10
6	BOW"S"	MEXICO	3324	86	134	187	85	15
3	VEE #1	MEXICO	3219	85	136	188	82	12
22	LIRA"S"	MEXICO	3186	84	133	185	73	13
29	MN 72131-PVN"S"	MEXICO	3137	86	134	190	82	15
4	VEE #3	MEXICO	3134	84	133	187	79	12
8	HAHN"S"	MEXICO	3040	83	142	190	74	10
17	BAYA"S"	MEXICO	2915	84	133	188	83	15
14	SAP"S"-MON"S"	MEXICO	2854	85	135	187	93	20
1	F12.71-COC	MEXICO	2724	82	131	190	74	8
20	JUP-EMU"S" X GJO"S"	MEXICO	2691	86	127	187	70	8
21	TESIA 79	MEXICO	2678	85	133	188	77	15
5	VEE"S"	MEXICO	2642	84	131	187	82	12
26	HAR"S"	MEXICO	2580	87	140	191	86	17
18	CAR422-ANA	MEXICO	2529	84	133	187	75	10
13	MOR"S"	MEXICO	2399	86	130	186	70	10
28	YACO"S"	MEXICO	2326	83	129	185	84	12
11	TSH"S"	MEXICO	2224	84	135	189	87	17
25	TAN"S"	MEXICO	2101	85	132	188	84	20
19	CNO-MFD X MON"S"	MEXICO	1958	84	134	190	97	20
24	TAN"S"	MEXICO	1510	85	128	186	83	18
		GRAND MEAN	3016.4	84.6	134.6	188.4	82.0	13.3
		STANDARD ERROR OF GRAND MEAN	67.1	0.1			0.5	
		COEFFICIENT OF VARIATION AS PC	21.1	0.6			5.8	
		LSD VARIETY MEANS 5 PC	1040.3	0.8			7.7	

CORRELATIONS

YIELD KG/HA					
TEST WT	0.23				
FLOW DAYS	0.48	-0.05			
MAT DAYS	0.32	0.00	0.70		
PLNT HT	0.02	0.14	0.24	0.31	
LODG %	-0.41	0.19	-0.16	-0.07	0.67

TABLE 7 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: IRENE(MONCHO'S)
LOW RAINFALL AT FLOWERING

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT
5	VEE"S"	MEXICO	6562	81	85	88
4	VEE #3	MEXICO	6307	84	89	88
29	MN 72131-PVN"S"	MEXICO	6257	85	87	97
22	LIRA"S"	MEXICO	6116	84	85	85
28	YACO"S"	MEXICO	6103	81	82	93
3	VEE #1	MEXICO	5972	83	88	90
6	BOW"S"	MEXICO	5772	82	89	90
12	NACOZARI 76	MEXICO	5677	81	86	90
24	TAN"S"	MEXICO	5653	85	80	97
21	TESIA 79	MEXICO	5533	84	88	93
2	BUC"S"	MEXICO	5492	81	90	85
14	SAP"S"-MON"S"	MEXICO	5299	82	92	98
15	PAVON 76	MEXICO	5253	84	86	95
20	JUP-EMU"S" X GJO"S"	MEXICO	5207	85	81	80
9	HAHN"S"	MEXICO	5081	81	93	80
13	MOR"S"	MEXICO	5025	85	83	70
17	BAYA"S"	MEXICO	5018	81	87	90
11	TSH"S"	MEXICO	4983	82	88	100
30	LOCAL CHECK		4972	84	82	70
25	TAN"S"	MEXICO	4874	81	83	103
19	CNO-MFD X MON"S"	MEXICO	4866	82	86	107
16	NKT"S"	MEXICO	4753	81	92	92
1	F12 71-COC	MEXICO	4692	83	88	78
8	HAHN"S"	MEXICO	4664	80	93	80
27	SPRW"S"-GJO"S"	MEXICO	4575	82	90	102
7	CIANO 79	MEXICO	4518	80	88	83
18	CAR422-ANA	MEXICO	4481	80	89	82
23	R37-GHL 121 X KAL-BB	MEXICO	4272	83	86	90
10	HAHN"S"	MEXICO	3918	80	94	83
26	HAR"S"	MEXICO	3783	85	90	108
		GRAND MEAN	5189.3	82.4	87.2	89.6
		STANDARD ERROR OF GRAND MEAN	87.8			0.5
		COEFFICIENT OF VARIATION AS PC	16.1			5.2
		LSD VARIETY MEANS 5 PC	1361.9			7.6

CORRELATIONS

YIELD KG/HA				
TEST	WT	0.23		
FLOW-	DAYS	-0.36	-0.49	
PLNT	HT	-0.01	0.05	0.05

TABLE 8 MIDDLE EAST ISRAEL R. D. SDE-GAT

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: BARKAEE

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT	1000 G. W.
4	VEE #3	MEXICO	7914	82	106	113	37
5	VEE"S"	MEXICO	7882	81	97	110	44
7	CIANO 79	MEXICO	7238	80	102	105	32
15	PAVON 76	MEXICO	6916	81	100	115	38
3	VEE #1	MEXICO	6811	81	103	117	38
17	BAYA"S"	MEXICO	6614	78	100	115	36
22	LIRA"S"	MEXICO	6614	82	99	107	42
28	YACO"S"	MEXICO	6581	78	96	102	38
18	CAR422-ANA	MEXICO	6535	79	102	103	35
12	NACOZARI 76	MEXICO	6483	79	98	110	33
6	BOW"S"	MEXICO	6463	81	101	105	38
21	TESIA 79	MEXICO	6437	79	99	103	32
26	HAR"S"	MEXICO	6371	81	108	130	34
2	BUC"S"	MEXICO	6364	79	107	110	35
16	NKT"S"	MEXICO	6246	77	113	110	36
24	TAN"S"	MEXICO	6213	79	93	115	37
23	R37-GHL 121 X KAL-BB	MEXICO	6194	82	99	107	32
11	TSH"S"	MEXICO	5997	81	99	120	42
14	SAP"S"-MON"S"	MEXICO	5983	79	102	117	34
9	HAHN"S"	MEXICO	5865	77	108	100	38
19	CNO-MFD X MON"S"	MEXICO	5786	81	98	132	44
20	JUP-EMU"S" X GJO"S"	MEXICO	5786	81	95	95	40
10	HAHN"S"	MEXICO	5767	78	110	105	38
13	MOR"S"	MEXICO	5747	80	99	85	38
25	TAN"S"	MEXICO	5740	78	99	118	38
8	HAHN"S"	MEXICO	5668	77	108	100	38
27	SPRW"S"-GJO"S"	MEXICO	5550	79	105	118	31
29	MN 72131-PVN"S"	MEXICO	5484	83	101	111	46
30	LOCAL CHECK		5484	77	88	77	36
1	F12.71-COC	MEXICO	5130	81	106	97	42
		GRAND MEAN	6262.2	79.7	101.4	108.4	37.4
		STANDARD ERROR OF GRAND MEAN	55.2	0.1		0.2	0.2
		COEFFICIENT OF VARIATION AS PC	8.4	0.9		1.7	5.1
		LSD VARIETY MEANS 5 PC	855.9	1.2		3.1	3.1

CORRELATIONS

YIELD	KG/HA				
TEST	WT	0.26			
FLOW	DAYS	-0.02	-0.14		
PLNT	HT	0.23	0.29	0.25	
1000	G. W.	-0.11	0.39	-0.14	0.04

TABLE 9 MIDDLE EAST SYRIA ALEPPO

ICARDA
J. P. SIRIVASTAVA

LATITUDE	36 09'N	DATE PLANTED	11/25/81	NITROGEN	APPLIED
LONGITUDE	36 04'E	DATE HARVESTED	6/23/82	PHOSPHORUS	APPLIED
ELEVATION	300 M ABOVE S.L	AMOUNT OF MOISTURE	338 MM	POTASSIUM	--

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

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	FRST DMGE
9	HAHN"S"	MEXICO	3988	150	185	70	42
30	LOCAL CHECK		3933	152	186	90	34
15	PAVON 76	MEXICO	3589	151	184	75	38
8	HAHN"S"	MEXICO	3555	152	187	70	42
12	NACOZARI 76	MEXICO	3544	149	187	75	50
10	HAHN"S"	MEXICO	3477	150	187	70	54
3	VEE #1	MEXICO	3477	150	191	75	63
27	SPRW"S"-GJO"S"	MEXICO	3455	151	186	85	17
16	NKT"S"	MEXICO	3444	151	184	80	34
5	VEE"S"	MEXICO	3300	150	186	70	59
23	R37-GHL 121 X KAL-BB	MEXICO	3211	150	188	70	63
6	BOW"S"	MEXICO	3189	149	188	75	59
17	BAYA"S"	MEXICO	3166	146	183	70	46
18	CAR422-ANA	MEXICO	3144	154	185	70	50
29	MN 72131-PVN"S"	MEXICO	3133	148	186	75	63
7	CIANO 79	MEXICO	3122	148	190	70	67
28	YACO"S"	MEXICO	3122	145	184	75	67
4	VEE #3	MEXICO	3122	150	189	65	67
14	SAP"S"-MON"S"	MEXICO	3111	148	184	70	50
11	TSH"S"	MEXICO	3111	151	188	75	54
13	MOR"S"	MEXICO	3089	151	185	50	50
26	HAR"S"	MEXICO	3089	153	186	85	50
20	JUP-EMU"S" X GJO"S"	MEXICO	3033	149	187	70	50
22	LIRA"S"	MEXICO	2922	149	186	60	63
2	BUC"S"	MEXICO	2911	151	188	75	71
19	CNO-MFD X MON"S"	MEXICO	2911	150	188	85	54
21	TESIA 79	MEXICO	2789	150	187	70	63
24	TAN"S"	MEXICO	2633	148	187	70	50
1	F12.71-COC	MEXICO	2589	150	187	70	67
25	TAN"S"	MEXICO	2544	149	188	75	46
		GRAND MEAN	3190.1	149.8	186.6	72.8	52.7
		STANDARD ERROR OF GRAND MEAN	33.7				
		COEFFICIENT OF VARIATION AS PC	10.0				
		LSD VARIETY MEANS 5 PC	523.1				

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	0.26			
MAT	DAYS	-0.21	0.10		
PLNT	HT	0.26	0.19	0.04	
FRST	DMGE	-0.49	-0.33	0.46	-0.39

TABLE 10 MIDDLE EAST TURKEY IZMIR

E. B. Z. A ENST.
CEREAL STAFF

LATITUDE		DATE PLANTED	11/25/81	NITROGEN	APPLIED
LONGITUDE		DATE HARVESTED	6/20/82	PHOSPHORUS	APPLIED
ELEVATION	M. ABOVE S. L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS.
LOCAL CHECK: CUMHURIYES-75

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA
4	VEE #3	MEXICO	6374
18	CAR422-ANA	MEXICO	6141
16	NKT"S"	MEXICO	6121
20	JUP-EMU"S" X GJO"S"	MEXICO	6074
9	HAHN"S"	MEXICO	6010
21	TESIA 79	MEXICO	5994
10	HAHN"S"	MEXICO	5985
12	NACOZARI 76	MEXICO	5942
5	VEE"S"	MEXICO	5928
17	BAYA"S"	MEXICO	5881
1	F12.71-COC	MEXICO	5664
30	LOCAL CHECK		5585
28	YACO"S"	MEXICO	5500
14	SAP"S"-MON"S"	MEXICO	5467
27	SPRW"S"-GJO"S"	MEXICO	5431
8	HAHN"S"	MEXICO	5430
6	BOW"S"	MEXICO	5346
29	MN 72131-PVN"S"	MEXICO	5157
2	BUC"S"	MEXICO	5100
13	MOR"S"	MEXICO	5068
23	R37-GHL 121 X KAL-BB	MEXICO	5052
24	TAN"S"	MEXICO	5045
11	TSH"S"	MEXICO	5034
22	LIRA"S"	MEXICO	5009
15	PAVON 76	MEXICO	4977
7	CIANO 79	MEXICO	4917
3	VEE #1	MEXICO	4699
25	TAN"S"	MEXICO	4499
19	CNO-MFD X MON"S"	MEXICO	3988
26	HAR"S"	MEXICO	3736

GRAND MEAN	5371.9
STANDARD ERROR OF GRAND MEAN	94.4
COEFFICIENT OF VARIATION AS PC	16.7
LSD VARIETY MEANS 5 PC	1464.4

TABLE 11 NORTH AMERICA CANADA ALBERTA

ELLERSLIE
UNIV OF ALBERTA

LATITUDE	053 34'N	DATE PLANTED	5/12/82	NITROGEN	APPLIED
LONGITUDE	113 31'W	DATE HARVESTED	9/13/82	PHOSPHORUS	APPLIED
ELEVATION	0677 M ABOVE S L	AMOUNT OF MOISTURE	263 MM	POTASSIUM	--

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

VAR NO	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
18	CAR422-ANA	MEXICO	4316	75	60	116	74	44
3	VEE #1	MEXICO	4231	78	58	108	80	38
5	VEE"S"	MEXICO	4119	74	53	106	73	37
16	NKT"S"	MEXICO	4002	75	61	116	85	38
27	SPRW"S"-GJO"S"	MEXICO	3946	78	54	111	82	44
4	VEE #3	MEXICO	3924	76	58	109	75	34
10	HAHN"S"	MEXICO	3911	78	61	109	74	44
25	TAN"S"	MEXICO	3894	77	55	115	81	41
15	PAVON 76	MEXICO	3799	78	54	114	79	39
26	HAR"S"	MEXICO	3751	79	60	115	87	36
24	TAN"S"	MEXICO	3741	76	52	110	74	41
6	BOW"S"	MEXICO	3725	79	56	111	77	34
2	BUC"S"	MEXICO	3657	77	57	113	77	42
8	HAHN"S"	MEXICO	3487	76	59	111	65	44
19	CNO-MFD X MON"S"	MEXICO	3463	72	54	116	84	40
9	HAHN"S"	MEXICO	3427	76	58	109	68	41
29	MN 72131-PVN"S"	MEXICO	3358	77	57	111	79	43
1	F12.71-COC	MEXICO	3314	73	60	116	73	39
11	TSH"S"	MEXICO	3257	76	54	113	75	39
30	LOCAL CHECK		3193	73	50	108	94	31
7	CIANO 79	MEXICO	3130	75	57	111	71	33
17	BAYA"S"	MEXICO	3099	75	53	109	72	41
22	LIRA"S"	MEXICO	3074	73	53	109	65	39
13	MOR"S"	MEXICO	3031	77	54	111	57	37
21	TESIA 79	MEXICO	3011	75	52	110	67	32
20	JUP-EMU"S" X GJO"S"	MEXICO	2985	74	51	111	65	39
28	YACO"S"	MEXICO	2950	73	50	108	69	38
23	R37-GHL 121 X KAL-BB	MEXICO	2880	77	52	111	70	31
12	NACOZARI 76	MEXICO	2821	75	51	109	74	33
14	SAP"S"-MON"S"	MEXICO	2631	76	56	115	77	39
		GRAND MEAN	3471.0	75.8	55.3	111.3	74.7	38.4

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

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.38				
FLOW	DAYS	0.53	0.37			
MAT	DAYS	0.12	0.07	0.44		
PLNT	HT	0.40	0.13	0.15	0.30	
1000	G.W.	0.39	0.14	0.39	0.25	-0.06

TABLE 12 NORTH AMERICA MEXICO EDO DE MEXICO

EL BATAN
CIMMYT

LATITUDE	019 31'N	DATE PLANTED	5/20/82	NITROGEN	APPLIED
LONGITUDE	098 50'W	DATE HARVESTED	8/16/82	PHOSPHORUS	APPLIED
ELEVATION	2249 M. ABOVE S. L.	AMOUNT OF MOISTURE	371 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. GERMINATION POOR.
SERIOUS DISEASE INCIDENCE. LOCAL CHECK: PAVON76

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT
14	SAF"S"-MON"S"	MEXICO	3117	66	111	65
8	HAHN"S"	MEXICO	3040	71	112	55
4	VEE #3	MEXICO	3009	64	108	58
9	HAHN"S"	MEXICO	2901	71	113	60
21	TESIA 79	MEXICO	2901	61	102	58
15	PAVON 76	MEXICO	2870	63	101	60
1	F12.71-COC	MEXICO	2700	71	111	58
18	CAR422-ANA	MEXICO	2669	69	102	55
27	SPRW"S"-GJO"S"	MEXICO	2669	67	106	60
11	TSH"S"	MEXICO	2639	60	106	60
19	CNO-MFD X MON"S"	MEXICO	2577	63	100	60
2	BUC"S"	MEXICO	2546	61	101	53
30	LOCAL CHECK		2515	62	102	58
6	BOW"S"	MEXICO	2500	67	105	63
23	R37-GHL 121 X KAL-BB	MEXICO	2423	62	105	55
26	HAR"S"	MEXICO	2330	72	113	70
22	LIRA"S"	MEXICO	2315	60	100	55
25	TAN"S"	MEXICO	2237	67	107	63
7	CIANO 79	MEXICO	2206	63	105	58
10	HAHN"S"	MEXICO	2176	75	113	58
28	YACO"S"	MEXICO	2098	59	100	58
13	MOR"S"	MEXICO	2098	60	98	40
5	VEE"S"	MEXICO	2052	59	99	58
20	JUP-EMU"S" X GJO"S"	MEXICO	2052	60	99	48
3	VEE #1	MEXICO	2037	64	107	60
17	BAYA"S"	MEXICO	1990	61	99	53
29	MN 72131-PVN"S"	MEXICO	1882	64	98	53
24	TAN"S"	MEXICO	1836	59	98	58
16	NKT"S"	MEXICO	1821	78	113	65
12	NACOZARI 76	MEXICO	1466	61	99	53
		GRAND MEAN	2389.1	64.3	104.4	57.3

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

CORRELATIONS

YIELD KG/HA			
FLOW DAYS	0.19		
MAT DAYS	0.42	0.83	
PLNT HT	0.26	0.48	0.60

TABLE 13 NORTH AMERICA MEXICO EDO DE MEXICO

ATIZAPAN
CIMMYT

LATITUDE	019 16'N	DATE PLANTED	5/30/82	NITROGEN	APPLIED
LONGITUDE	099 51'W	DATE HARVESTED	10/ 7/82	PHOSPHORUS	APPLIED
ELEVATION	2640 M ABOVE S L	AMOUNT OF MOISTURE	900 MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL DRY AT SOWING. SERIOUS DISEASE INCIDENCE.
NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM. NEGLIGIBLE BIRD DAMAGE.
LOCAL CHECK: TESIA79

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	STRP RT.L	PLNT HT
19	CNO-MFD X MON"S"	MEXICO	8792	78	0	102
22	LIRA"S"	MEXICO	8542	74	0	82
15	PAVON 76	MEXICO	8458	78	TMS	92
30	LOCAL CHECK		8438	75	10MS	80
6	BOW"S"	MEXICO	8396	84	0	82
1	F12.71-COC	MEXICO	8167	83	5R-MR	80
20	JUP-EMU"S" X GJO"S"	MEXICO	8083	75	TMS	77
11	TSH"S"	MEXICO	7958	79	0	97
29	MN 72131-PVN"S"	MEXICO	7917	77	0	85
18	CAR422-ANA	MEXICO	7854	85	TR	88
14	SAP"S"-MON"S"	MEXICO	7792	79	TR	93
17	BAYA"S"	MEXICO	7792	77	10MR-MS	88
4	VEE #3	MEXICO	7708	81	TMS	85
26	HAR"S"	MEXICO	7667	85	0	105
2	BUC"S"	MEXICO	7667	80	80MS-MR	90
10	HAHN"S"	MEXICO	7667	93	0	87
8	HAHN"S"	MEXICO	7625	88	0	82
23	R37-GHL 121 X KAL-BB	MEXICO	7375	77	20MS	85
13	MOR"S"	MEXICO	7333	71	TR	65
21	TESIA 79	MEXICO	7292	76	10S-MS	80
3	VEE #1	MEXICO	7292	80	0	92
25	TAN"S"	MEXICO	7250	85	TR	97
9	HAHN"S"	MEXICO	7167	86	0	80
7	CIANO 79	MEXICO	6958	80	40MS	83
24	TAN"S"	MEXICO	6938	74	5MR-MS	88
28	YACO"S"	MEXICO	6938	71	0	80
27	SPRW"S"-GJO"S"	MEXICO	6896	84	TMS	97
5	VEE"S"	MEXICO	6813	74	0	80
16	NKT"S"	MEXICO	5583	98	5MR-MS	97
12	NACOZARI 76	MEXICO	5146	76	50S-MS	82
		GRAND MEAN	7516.7	79.8	4.4	86.6

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

CORRELATIONS

YIELD KG/HA			
FLOW DAYS	-0.18		
STRP RT.L	-0.41	-0.11	
PLNT HT	0.04	0.45	-0.11

TABLE 14 NORTH AMERICA MEXICO SONORA

CIANO (1ST DATE)
CIMMYT

LATITUDE	027 20'N	DATE PLANTED	11/30/--	NITROGEN	APPLIED
LONGITUDE	109 54'W	DATE HARVESTED	5/ 2/82	PHOSPHORUS	APPLIED
ELEVATION	0038 M. ABOVE S. L	AMOUNT OF MOISTURE	1 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 INSECTS AND WEEDS. WEATHER NORMAL.
LOCAL CHECK: CIANO 79

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT
30	LOCAL CHECK		6592	79	83	129	90
4	VEE #3	MEXICO	6468	80	92	130	93
17	BAYA"S"	MEXICO	6423	77	87	128	90
19	CNO-MFD X MON"S"	MEXICO	6355	80	86	126	105
7	CIANO 79	MEXICO	6315	78	84	130	90
12	NACOZARI 76	MEXICO	6185	80	84	125	93
3	VEE #1	MEXICO	6180	80	92	130	90
15	PAVON 76	MEXICO	6100	81	86	128	100
22	LIRA"S"	MEXICO	6071	82	84	125	90
23	R3T-GHL 121 X KAL-BB	MEXICO	6057	81	85	128	88
5	VEE"S"	MEXICO	5872	80	87	127	95
18	CAR422-ANA	MEXICO	5869	78	90	130	85
6	BOW"S"	MEXICO	5835	81	89	130	93
2	BUC"S"	MEXICO	5831	77	84	130	90
21	TESIA 79	MEXICO	5810	79	86	128	88
16	NKT"S"	MEXICO	5758	76	98	134	90
20	JUP-EMU"S" X GJO"S"	MEXICO	5739	82	77	125	78
11	TSH"S"	MEXICO	5682	81	85	130	105
9	HAHN"S"	MEXICO	5678	77	97	134	80
27	SPRW"S"-GJO"S"	MEXICO	5614	78	88	130	93
13	MOR"S"	MEXICO	5607	81	84	129	75
28	YACO"S"	MEXICO	5598	78	82	126	90
29	MN 72131-PVN"S"	MEXICO	5515	81	85	127	88
10	HAHN"S"	MEXICO	5481	78	96	133	80
25	TAN"S"	MEXICO	5448	78	91	130	95
24	TAN"S"	MEXICO	5364	82	81	126	100
8	HAHN"S"	MEXICO	5357	77	97	134	80
1	F12.71-COC	MEXICO	5348	78	92	130	83
14	SAR"S"-MON"S"	MEXICO	5325	79	88	128	100
26	HAR"S"	MEXICO	4979	79	92	130	100
		GRAND MEAN	5815.1	79.2	87.6	128.9	90.4
		STANDARD ERROR OF GRAND MEAN	35.7				0.3
		COEFFICIENT OF VARIATION AS PC	5.8				2.6
		LSD VARIETY MEANS 5 PC	552.8				4.8

CORRELATIONS

YIELD	KG/HA				
TEST	WT	0.11			
FLOW	DAYS	-0.26	-0.60		
MAT	DAYS	-0.24	-0.65	0.85	
PLNT	HT	0.10	0.23	-0.17	-0.30

TABLE 15 NORTH AMERICA U. S. A. MINNESOTA

ST. PAUL
R. HEINER

LATITUDE	044 57'N	DATE PLANTED	4/26/82	NITROGEN	--
LONGITUDE	093 05'W	DATE HARVESTED	8/ 2/82	PHOSPHORUS	--
ELEVATION	M. ABOVE S. L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NEGLIGIBLE DISEASE DEVELOPMENT. NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF WEEDS. HAND WEEDING.
LOCAL CHECK: ERA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	PLNT HT
22	LIRA"S"	MEXICO	3815	75	59	74
29	MN 72131-PVN"S"	MEXICO	3735	79	61	78
20	JUP-EMU"S" X GJO"S"	MEXICO	3708	79	54	71
21	TESIA 79	MEXICO	3705	75	56	75
5	VEE"S"	MEXICO	3426	71	59	80
12	NACOZARI 76	MEXICO	3261	71	55	77
28	YACO"S"	MEXICO	3212	71	57	77
23	R37-GHL 121 X KAL-BB	MEXICO	3186	79	56	76
17	BAYA"S"	MEXICO	3037	70	61	79
15	PAVON 76	MEXICO	2940	75	61	83
9	HAHN"S"	MEXICO	2896	71	66	66
24	TAN"S"	MEXICO	2789	75	57	83
8	HAHN"S"	MEXICO	2785	71	65	67
3	VEE #1	MEXICO	2750	73	66	78
13	MOR"S"	MEXICO	2732	73	60	62
6	BOW"S"	MEXICO	2657	74	65	79
27	SPRW"S"-GJO"S"	MEXICO	2602	75	61	83
30	LOCAL CHECK		2602	74	62	82
7	CIANO 79	MEXICO	2549	73	61	71
2	BUC"S"	MEXICO	2540	73	62	74
1	F12.71-COC	MEXICO	2533	73	67	69
4	VEE #3	MEXICO	2527	72	67	75
10	HAHN"S"	MEXICO	2497	72	67	67
11	TSH"S"	MEXICO	2439	74	59	79
19	CNO-MFD X MON"S"	MEXICO	2405	73	61	92
26	HAR"S"	MEXICO	2402	75	70	73
18	CAR422-ANA	MEXICO	2129	71	67	71
14	SAP"S"-MON"S"	MEXICO	2032	74	64	79
25	TAN"S"	MEXICO	1989	73	66	77
16	NKT"S"	MEXICO	1685	71	70	70
		GRAND MEAN	2785.5	73.5	62.1	75.6
		STANDARD ERROR OF GRAND MEAN	29.4		0.1	0.2
		COEFFICIENT OF VARIATION AS PC	10.0		1.0	2.7
		LSD VARIETY MEANS 5 PC	455.6		1.1	3.3

CORRELATIONS

YIELD	KG/HA			
TEST	WT	0.42		
FLOW	DAYS	-0.71	-0.41	
PLNT	HT	0.04	0.20	-0.30

TABLE 16 NORTH AMERICA U. S. A. OREGON

KLAMATH FALLS
CEREAL STAFF

LATITUDE	042 15'N	DATE PLANTED	4/29/82	NITROGEN	APPLIED
LONGITUDE	121 48'W	DATE HARVESTED	9/ 3/82	PHOSPHORUS	APPLIED
ELEVATION	+01235 M. ABOVE S. L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. NEGLIGIBLE DISEASE DEVELOPMENT.
MODERATE WEED PROBLEM. SLIGHT BIRD DAMAGE.
CHEMICAL CONTROL OF WEEDS. LOCAL CHECK: OWENS

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT
30	LOCAL CHECK		9824	79
27	SPRW"S"-GJO"S"	MEXICO	8177	81
18	CAR422-ANA	MEXICO	8129	77
15	PAVON 76	MEXICO	8127	82
7	CIANO 79	MEXICO	8054	80
17	BAYA"S"	MEXICO	7907	77
12	NACOZARI 76	MEXICO	7819	77
9	HAHN"S"	MEXICO	7814	77
25	TAN"S"	MEXICO	7801	80
24	TAN"S"	MEXICO	7697	81
16	NKT"S"	MEXICO	7618	77
8	HAHN"S"	MEXICO	7608	77
6	BOW"S"	MEXICO	7559	81
26	HAR"S"	MEXICO	7550	82
10	HAHN"S"	MEXICO	7533	80
2	BUC"S"	MEXICO	7484	77
5	VEE"S"	MEXICO	7393	77
28	YACO"S"	MEXICO	7360	81
4	VEE #3	MEXICO	7307	79
29	MN 72131-PVN"S"	MEXICO	7182	80
13	MOR"S"	MEXICO	7154	80
3	VEE #1	MEXICO	7020	79
23	R37-GHL 121 X KAL-BB	MEXICO	6994	80
11	TSH"S"	MEXICO	6923	77
1	F12 71-COC	MEXICO	6877	77
21	TESIA 79	MEXICO	6714	79
14	SAP"S"-MON"S"	MEXICO	6099	79
20	JUP-EMU"S" X GJO"S"	MEXICO	6019	79
19	CNO-MFD X MON"S"	MEXICO	5566	77
22	LIRA"S"	MEXICO	5253	77

GRAND MEAN	7352.0	78.9
STANDARD ERROR OF GRAND MEAN		
COEFFICIENT OF VARIATION AS PC		
LSD VARIETY MEANS 5 PC		

CORRELATIONS

	YIELD KG/HA
TEST WT	0.23

TABLE 17 SOUTH AMERICA ARGENTINA CORDOBA

MARCOS JUAREZ
R. FOGNATE

LATITUDE	032 42'S	DATE PLANTED	7/ 8/--	NITROGEN	--
LONGITUDE	062 07'W	DATE HARVESTED	12/--/82	PHOSPHORUS	--
ELEVATION	0110 M ABOVE S.L.	AMOUNT OF MOISTURE	-- MM	POTASSIUM	--

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
NEGLIGIBLE INSECT DAMAGE. NO WEED PROBLEM.
NEGLIGIBLE BIRD DAMAGE. CHEMICAL CONTROL OF INSECTS AND WEEDS. WEATHER NOT REPORTED.
LOCAL CHECK: VICTORIA INTA

VAR NO	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	LEAF RUST	STEM RUST	PLNT HT	1000 G.W.	SEP T 0-9
5	VEE"S"	MEXICO	3477	76	15MS	0	65	39	1
17	BAYA"S"	MEXICO	3389	78	0	0	60	36	1
20	JUP-EMU"S" X GJO"S"	MEXICO	3377	78	5MS	TS	60	40	0
4	VEE #3	MEXICO	3266	79	5MS	0	60	35	1
29	MN 72131-PVN"S"	MEXICO	3200	81	TMS	TS	65	40	2
13	MOR"S"	MEXICO	3144	78	30S	TS	60	42	1
6	BOW"S"	MEXICO	3122	80	10MS	0	60	35	1
16	NKT"S"	MEXICO	3100	77	70S	0	75	39	1
22	LIRA"S"	MEXICO	3077	76	5MS	TS	60	39	2
18	CAR422-ANA	MEXICO	3066	77	15MS	0	65	39	1
23	R37-GHL 121 X KAL-BB	MEXICO	2966	79	15MS	0	60	33	1
10	HAHN"S"	MEXICO	2933	76	TMS	0	60	40	1
24	TAN"S"	MEXICO	2911	77	30MS	TS	65	40	2
19	CNO-MFD X MON"S"	MEXICO	2900	78	TMS	0	75	40	0
12	NACOZARI 76	MEXICO	2900	77	80S	0	70	39	1
21	TESIA 79	MEXICO	2866	79	5MS	TS	65	34	2
28	YACO"S"	MEXICO	2833	74	5MS	0	65	39	2
8	HAHN"S"	MEXICO	2733	76	30MS	0	70	40	1
7	CIANO 79	MEXICO	2722	76	15MS	0	65	32	1
26	HAR"S"	MEXICO	2633	77	5MS	0	65	34	2
1	F12.71-COC	MEXICO	2622	76	5MS	0	60	39	1
9	HAHN"S"	MEXICO	2589	75	TMS	0	60	39	1
3	VEE #1	MEXICO	2566	78	10MS	TS	70	38	2
30	LOCAL CHECK		2455	80	30MS	10S	60	34	1
15	PAVON 76	MEXICO	2422	78	60S	0	75	34	1
27	SPRW"S"-GJO"S"	MEXICO	2411	78	10MS	TMS	60	34	0
11	TSH"S"	MEXICO	2411	75	0	TS	70	40	2
2	BUC"S"	MEXICO	2344	77	20MS	0	70	36	1
25	TAN"S"	MEXICO	2311	78	15MS	0	65	41	2
14	SAP"S"-MON"S"	MEXICO	1455	78	0	40S	75	40	1
		GRAND MEAN	2806.8	77.4	14.8	2.0	65.2	37.6	1.2

STANDARD ERROR OF GRAND MEAN 50.4
COEFFICIENT OF VARIATION AS PC 17.0
LSD VARIETY MEANS 5 PC 781.0

CORRELATIONS

YIELD KG/HA						
TEST WT	0.10					
LEAF RUST	0.03	0.02				
STEM RUST	-0.63	0.16	-0.12			
PLNT HT	-0.42	-0.11	0.43	0.29		
1000 G.W.	0.06	-0.32	0.00	0.11	0.18	
SEP T 0-9	-0.10	-0.12	-0.11	-0.06	0.04	0.10

TABLE 18 SOUTH AMERICA BOLIVIA COCHABAMBA

SAN BENITO
Q. SALAMANCA ET AL

LATITUDE	017 30'S	DATE PLANTED	1/ 6/82	NITROGEN	APPLIED
LONGITUDE	066 06'W	DATE HARVESTED	6/16/82	PHOSPHORUS	APPLIED
ELEVATION	2730 M. ABOVE S. L.	AMOUNT OF MOISTURE	364 MM	POTASSIUM	--

LATE SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
SLIGHT DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. MODERATE WEED PROBLEM.
SLIGHT BIRD DAMAGE. HAND WEEDING.
DROUGHT DURING FIRST PART OF GROWING CICLE & LACK OF RAIN AT MATURITY

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	PLNT HT	SEP T 0-9
22	LIRA"S"	MEXICO	5909	69	130	72	0
15	PAVON 76	MEXICO	5557	72	148	82	0
7	CIANO 79	MEXICO	5363	69	150	73	0
4	VEE #3	MEXICO	5285	78	143	77	0
5	VEE"S"	MEXICO	5271	68	138	72	0
17	BAYA"S"	MEXICO	4887	71	138	78	1
30	LOCAL CHECK		4870	57	130	78	0
25	TAN"S"	MEXICO	4760	72	143	80	0
23	R37-GHL 121 X KAL-BB	MEXICO	4696	71	153	77	0
12	NACOZARI 76	MEXICO	4589	64	130	70	0
21	TESIA 79	MEXICO	4581	67	130	70	0
24	TAN"S"	MEXICO	4545	63	130	73	0
28	YACO"S"	MEXICO	4510	64	128	68	0
20	JUP-EMU"S" X GJO"S"	MEXICO	4366	60	135	68	1
3	VEE #1	MEXICO	4348	76	143	82	0
2	BUC"S"	MEXICO	4267	69	150	77	0
14	SAP"S"-MON"S"	MEXICO	4257	72	150	80	0
1	F12.71-COC	MEXICO	4150	79	150	73	1
6	BOW"S"	MEXICO	4141	76	150	78	0
18	CAR422-ANA	MEXICO	4098	77	150	75	0
11	TSH"S"	MEXICO	4089	67	133	73	0
29	MN 72131-PVN"S"	MEXICO	4074	70	135	68	0
26	HAR"S"	MEXICO	4070	77	150	93	0
16	NKT"S"	MEXICO	3936	84	156	82	0
19	CNO-MFD X MON"S"	MEXICO	3900	71	138	85	0
9	HAHN"S"	MEXICO	3698	84	156	68	0
27	SPRW"S"-GJO"S"	MEXICO	3620	74	153	78	1
13	MOR"S"	MEXICO	3527	68	130	55	0
10	HAHN"S"	MEXICO	2995	86	161	75	0
8	HAHN"S"	MEXICO	2957	85	156	70	0
		GRAND MEAN	4377.2	72.0	142.7	75.1	0.1
		STANDARD ERROR OF GRAND MEAN	91.5			0.4	
		COEFFICIENT OF VARIATION AS PC	19.8			5.1	
		LSD VARIETY MEANS 5 PC	1418.6			6.3	

CORRELATIONS

YIELD	KG/HA				
FLOW	DAYS	-0.49			
MAT	DAYS	-0.41	0.82		
PLNT	HT	0.13	0.25	0.40	
SEP T	0-9	-0.09	-0.07	0.06	-0.06

TABLE 19 SOUTH AMERICA BRAZIL PARANA

PALOTINA
OCEPAR/JOHN W. GIBLER

LATITUDE	24 17'S	DATE PLANTED	3/24/82	NITROGEN	APPLIED
LONGITUDE	53 26'W	DATE HARVESTED	7/15/82	PHOSPHORUS	APPLIED
ELEVATION	300 M. ABOVE S. L.	AMOUNT OF MOISTURE	604 MM	POTASSIUM	APPLIED

NORMAL SOWING DATE. SOIL MOIST AT SOWING. GERMINATION GOOD.
SERIOUS DISEASE INCIDENCE. NEGLIGIBLE INSECT DAMAGE. SLIGHT WEED PROBLEM.
CHEMICAL CONTROL OF INSECTS. HAND WEEDING.
LOCAL CHECK: COCORAQUE

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %	SHTR %	1000 G. W.	SCAB %
30	LOCAL CHECK		789	49	58	105	75	30	-	18	20
22	LIRA"S"	MEXICO	784	60	52	111	70	90	-	20	20
29	MN 72131-PVN"S"	MEXICO	764	59	48	105	75	-	-	21	20
19	CNO-MFD X MON"S"	MEXICO	754	54	46	105	80	20	30	22	20
26	HAR"S"	MEXICO	745	59	68	116	85	50	-	13	40
1	F12.71-COC	MEXICO	745	65	76	130	70	-	-	23	40
17	BAYA"S"	MEXICO	745	51	42	105	75	60	20	20	20
25	TAN"S"	MEXICO	700	59	68	116	80	-	-	19	20
21	TESIA 79	MEXICO	680	57	43	105	65	90	10	17	20
3	VEE #1	MEXICO	680	54	61	116	75	-	-	17	20
24	TAN"S"	MEXICO	660	59	52	105	75	40	10	18	20
2	BUC"S"	MEXICO	600	58	48	111	70	-	30	18	20
23	R37-GHL 121 X KAL-BB	MEXICO	590	53	47	111	65	-	30	16	20
27	SPRW"S"-GJO"S"	MEXICO	580	62	64	130	80	80	-	18	20
13	MOR"S"	MEXICO	545	54	45	105	55	-	30	18	40
20	JUP-EMU"S" X GJO"S"	MEXICO	540	62	41	105	50	-	90	24	20
11	TSH"S"	MEXICO	535	53	42	105	60	-	10	18	40
16	NKT"S"	MEXICO	525	56	85	130	75	-	-	14	20
14	SAP"S"-MON"S"	MEXICO	520	57	57	111	80	-	20	17	20
8	HAHN"S"	MEXICO	495	67	90	140	70	-	-	31	20
6	BOW"S"	MEXICO	475	66	67	130	70	-	-	17	20
7	CIANO 79	MEXICO	455	51	46	105	65	10	80	14	20
18	CAR422-ANA	MEXICO	445	48	61	111	75	-	20	15	20
12	NACOZARI 76	MEXICO	445	54	41	105	60	-	40	18	20
9	HAHN"S"	MEXICO	425	67	90	140	75	-	-	26	20
28	YACO"S"	MEXICO	415	49	43	105	65	-	90	15	20
5	VEE"S"	MEXICO	405	47	48	105	70	10	30	13	20
10	HAHN"S"	MEXICO	390	66	93	140	70	-	-	24	20
15	PAVON 76	MEXICO	385	48	48	105	80	50	90	19	20
4	VEE #3	MEXICO	375	48	61	111	70	-	10	18	20
		GRAND MEAN	572.8	56.4	57.7	114.1	71.0	48.2	37.6	18.7	22.7
		STANDARD ERROR OF GRAND MEAN	15.8								
		COEFFICIENT OF VARIATION AS PC	26.1								
		LSD VARIETY MEANS 5 PC	244.2								

CORRELATIONS

YIELD	KG/HA								
TEST	WT	0.14							
FLOW	DAYS	-0.16	0.61						
MAT	DAYS	-0.20	0.74	0.93					
PLNT	HT	0.29	0.03	0.38	0.24				
LODG	%	0.41	0.56	0.07	0.30	0.00			
SHTR	%	-0.36	-0.06	-0.15	-0.08	-0.27	-0.41		
1000	G.W.	0.05	0.63	0.41	0.48	-0.10	0.25	0.07	
SCAB	%	0.20	0.09	0.00	0.00	-0.18	0.02	-0.21	-0.07

TABLE 20 SOUTH AMERICA CHILE CHILLAN, NUBLE

QUILAMAPU
M. MELLADO

LATITUDE	036 34'S	DATE PLANTED	9/ 9/81	NITROGEN	APPLIED
LONGITUDE	072 06'W	DATE HARVESTED	2/ 5/82	PHOSPHORUS	APPLIED
ELEVATION	0144 M ABOVE S.L.	AMOUNT OF MOISTURE	113 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. WEATHER NORMAL.
LOCAL CHECK: ANCOA INIA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	STRP RT. L	LEAF RUST	PLNT HT
10	HAHN"S"	MEXICO	6021	76	80	0	20MS	75
15	PAVON 76	MEXICO	6014	81	73	0	70MS	93
5	VEE"S"	MEXICO	5792	78	71	TR	30MS	82
7	CIANO 79	MEXICO	5723	78	74	0	40MS-MR	82
12	NACOZARI 76	MEXICO	5681	79	72	30MS	60S	82
9	HAHN"S"	MEXICO	5681	76	80	TR	10MS	75
26	HAR"S"	MEXICO	5605	82	77	0	0	100
25	TAN"S"	MEXICO	5473	78	72	0	60MS	87
4	VEE #3	MEXICO	5473	78	76	TR	0	82
11	TSH"S"	MEXICO	5431	80	74	10MR	0	92
8	HAHN"S"	MEXICO	5355	75	80	5MR	10MS	73
2	BUC"S"	MEXICO	5230	78	76	0	30MS	80
21	TESIA 79	MEXICO	5146	78	70	0	0	75
3	VEE #1	MEXICO	5118	78	77	5R	5MS	83
18	CAR422-ANA	MEXICO	5112	78	77	10MR	0	80
28	YACO"S"	MEXICO	5105	77	69	0	0	77
6	BOW"S"	MEXICO	5000	80	77	5MR	0	80
22	LIRA"S"	MEXICO	4980	77	68	5MS	0	75
24	TAN"S"	MEXICO	4889	79	68	TR	60MS	85
16	NKT"S"	MEXICO	4806	77	81	TR	70S	88
19	CNO-MFD X MON"S"	MEXICO	4771	78	71	5R	0	92
17	BAYA"S"	MEXICO	4702	77	74	5MS	80S	87
23	R37-GHL 121 X KAL-BB	MEXICO	4646	80	71	5MR	0	78
27	SPRW"S"-GJO"S"	MEXICO	4549	79	75	30MS	5MS	88
20	JUP-EMU"S" X GJO"S"	MEXICO	4368	79	69	70S		68
30	LOCAL CHECK		4264	79	74	90S	0	83
1	F12.71-COC	MEXICO	3993	79	77	30MR	20MR	72
13	MOR"S"	MEXICO	3986	79	71	0	70S	65
14	SAP"S"-MON"S"	MEXICO	3396	77	74	50MR	0	83
29	MN 72131-PVN"S"	MEXICO	1986	75	73	99S	0	80
		GRAND MEAN	4943.2	78.2	74.0	12.1	19.0	81.4
		STANDARD ERROR OF GRAND MEAN	65.6	0.1				0.3
		COEFFICIENT OF VARIATION AS PC	12.6	1.0				3.8
		LSD VARIETY MEANS 5 PC	1017.7	1.2				5.1

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0.24				
FLOW	DAYS	0.18	-0.23			
STRP	RT. L	-0.66	-0.13	-0.16		
LEAF	RUST	0.14	0.05	-0.07	-0.19	
PLNT	HT	0.24	0.42	0.10	-0.14	0.07

TABLE 21 SOUTH AMERICA CHILE SANTIAGO

LA PLATINA
J. RAMIREZ

LATITUDE	033 27'S	DATE PLANTED	8/ 9/82	NITROGEN	--
LONGITUDE	070 38'W	DATE HARVESTED	1/ 8/83	PHOSPHORUS	--
ELEVATION	0629 M. ABOVE S. L.	AMOUNT OF MOISTURE	155 MM	POTASSIUM	--

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

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT
7	CIANO 79	MEXICO	6666	78	86	0	5MS	10MS	80
17	BAYA"S"	MEXICO	6520	80	88	0	TMR	5MS	90
2	BUC"S"	MEXICO	6458	79	88	0	0	5MS	80
30	LOCAL CHECK		6423	80	90	0	0	TR	80
5	VEE"S"	MEXICO	6319	80	86	0	TMR	TR	85
26	HAR"S"	MEXICO	6180	82	106	0	0	TR	95
1	F12.71-COC	MEXICO	6111	80	91	5MS	0	TR	70
16	NKT"S"	MEXICO	6076	78	110	10S	TR	TR	80
25	TAN"S"	MEXICO	6076	78	87	TR	0	TR	90
28	YACO"S"	MEXICO	6055	76	82	0	0	TR	80
24	TAN"S"	MEXICO	6048	80	82	0	TR	TR	90
4	VEE #3	MEXICO	5909	79	103	0	0	5MS	85
10	HAHN"S"	MEXICO	5854	75	90	0	0	TM	80
23	R37-GHL 121 X KAL-BB	MEXICO	5826	82	83	0	0	TR	75
6	BOW"S"	MEXICO	5770	80	88	TS	0	TR	80
3	VEE #1	MEXICO	5742	78	105	0	TR	5MS	80
8	HAHN"S"	MEXICO	5722	75	93	0	0	TR	70
15	PAVON 76	MEXICO	5722	82	90	20S	5MR	10MS	80
19	CNO-MFD X MON"S"	MEXICO	5701	80	88	30S	0	5MS	95
20	JUP-EMU"S" X GJO"S"	MEXICO	5611	80	82	50S	0	5MS-S	80
12	NACOZARI 76	MEXICO	5562	79	85	40S	0	5MR	85
21	TESIA 79	MEXICO	5513	78	90	TS	0	20MS-S	75
29	MN 72131-PVN"S"	MEXICO	5402	80	90	30S	0	5MS	85
13	MOR"S"	MEXICO	5402	79	85	0	0	TR	70
14	SAP"S"-MON"S"	MEXICO	5347	78	88	10S	0	5MR	85
18	CAR422-ANA	MEXICO	5076	78	90	10S	0	TR	80
22	LIRA"S"	MEXICO	4881	76	89	0	0	TR	65
27	SPRW"S"-GJO"S"	MEXICO	4638	75	90	20S	TMR	30MS-S	85
11	TSH"S"	MEXICO	4277	75	85	20S	0	80S	95
9	HAHN"S"	MEXICO	4257	73	94	0	0	TR	75
		GRAND MEAN	5704.8	78.4	90.1	8.2	0.3	5.9	81.5
		STANDARD ERROR OF GRAND MEAN							
		COEFFICIENT OF VARIATION AS PC							
		LSD VARIETY MEANS 5 PC							

CORRELATIONS

YIELD	KG/HA						
TEST	WT	0.56					
MAT	DAYS	0.06	-0.02				
STRP	RT. L	-0.31	0.13	-0.22			
LEAF	RUST	0.27	0.10	-0.10	-0.03		
STEM	RUST	-0.50	-0.32	-0.14	0.25	0.04	
PLNT	HT	0.11	0.23	0.03	0.28	-0.05	0.34

TABLE 22 SOUTH AMERICA ECUADOR QUITO, PICHINCHA

STA CATALINA
PROGRAMA CEREALES

LATITUDE	000 22'S	DATE PLANTED	1/21/82	NITROGEN	--
LONGITUDE	078 33'W	DATE HARVESTED	--/--/--	PHOSPHORUS	--
ELEVATION	3058 M. ABOVE S. L.	AMOUNT OF MOISTURE	969 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 INSECTS. CHEMICAL CONTROL OF WEEDS.
VERY WET CICLE

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	STRP RT. L	STRP RT. H	PLNT HT
4	VEE #3	MEXICO	5203	74	92	TR	0	93
3	VEE #1	MEXICO	4987	75	90	TR	0	98
10	HAHN"S"	MEXICO	4968	76	92	TR	1	95
5	VEE"S"	MEXICO	4937	74	80	TR	1	92
25	TAN"S"	MEXICO	4906	72	88	20M	10	98
9	HAHN"S"	MEXICO	4604	75	92	TR	1	85
30	LOCAL CHECK		4555	70	77	TM	0	97
19	CNO-MFD X MON"S"	MEXICO	4382	73	88	TR	0	118
8	HAHN"S"	MEXICO	4246	73	92	TR	1	85
13	MOR"S"	MEXICO	4092	70	79	10M	10	77
15	PAVON 76	MEXICO	4055	72	85	TM	1	98
26	HAR"S"	MEXICO	3894	73	96	20MR	40	103
22	LIRA"S"	MEXICO	3845	73	76	TR	0	85
1	F12. 71-COC	MEXICO	3647	74	90	TR	1	82
29	MN 72131-PVN"S"	MEXICO	3629	74	79	TR	1	97
14	SAP"S"-MON"S"	MEXICO	3487	71	88	20MS	5	102
17	BAYA"S"	MEXICO	3240	71	87	TR	20	93
24	TAN"S"	MEXICO	3043	73	80	5M	1	90
23	R37-GHL 121 X KAL-BB	MEXICO	2944	72	81	30M	30	87
28	YACO"S"	MEXICO	2820	67	77	60MS	60	85
11	TSH"S"	MEXICO	2629	75	88	30M	40	102
18	CAR422-ANA	MEXICO	2567	69	89	TMR	1	83
20	JUP-EMU"S" X GJO"S"	MEXICO	2512	71	78	30M	10	78
2	BUC"S"	MEXICO	2500	69	90	40MS	20	93
6	BOW"S"	MEXICO	2302	73	90	TR	0	88
7	CIANO 79	MEXICO	2030	72	88	30MS	50	82
21	TESIA 79	MEXICO	2012	65	78	99S	60	85
27	SPRW"S"-GJO"S"	MEXICO	1796	71	88	60MS	60	95
16	NKT"S"	MEXICO	1716	64	100	40M	30	92
12	NACOZARI 76	MEXICO	506	-	83	99S	99	83
		GRAND MEAN	3401. 8	71. 8	83. 1	15. 9	18. 4	91. 4
		STANDARD ERROR OF GRAND MEAN	63. 6					0. 3
		COEFFICIENT OF VARIATION AS PC	17. 7					3. 6
		LSD VARIETY MEANS 5 PC	986. 7					5. 4

CORRELATIONS

YIELD	KG/HA					
TEST	WT	0. 55				
FLOW	DAYS	0. 06	0. 13			
STRP	RT. L	-0. 70	-0. 55	-0. 22		
STRP	RT. H	-0. 73	-0. 42	-0. 08	0. 88	
PLNT	HT	0. 34	0. 25	0. 29	-0. 24	-0. 18

LOCATIONS: TUNISIA --TUNIS PORTUGAL--ELVAS SPAIN --CADIZ

VAR NO	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	LODG %
4	VEE #3	MEXICO	5365	84	105	187	91	12
12	NACOZARI 76	MEXICO	5241	83	104	189	93	15
6	BOW"S"	MEXICO	5221	84	106	187	93	15
22	LIRA"S"	MEXICO	5217	84	104	185	86	13
15	PAVON 76	MEXICO	5140	86	104	188	96	15
5	VEE"S"	MEXICO	5048	83	103	187	91	12
29	MN 72131-PVN"S"	MEXICO	4983	86	105	190	95	15
2	BUC"S"	MEXICO	4975	83	106	190	94	13
9	HAHN"S"	MEXICO	4899	83	112	191	83	10
28	YACO"S"	MEXICO	4879	82	98	185	92	12
16	NKT"S"	MEXICO	4856	83	112	190	97	10
14	SAP"S"-MON"S"	MEXICO	4824	84	107	187	100	20
30	LOCAL CHECK		4813	86	105	191	88	8
3	VEE #1	MEXICO	4747	84	107	188	93	12
20	JUP-EMU"S" X GJO"S"	MEXICO	4739	86	98	187	82	8
17	BAYA"S"	MEXICO	4724	83	104	188	94	15
23	R37-GHL 121 X KAL-BB	MEXICO	4723	85	104	186	92	13
21	TESIA 79	MEXICO	4719	85	105	188	90	15
7	CIANO 79	MEXICO	4653	83	105	188	88	12
1	F12 71-COC	MEXICO	4428	83	104	190	81	8
18	CAR422-ANA	MEXICO	4373	82	106	187	83	10
13	MOR"S"	MEXICO	4316	86	101	186	77	10
10	HAHN"S"	MEXICO	4265	82	112	190	86	10
8	HAHN"S"	MEXICO	4264	82	112	190	82	10
27	SPRW"S"-GJO"S"	MEXICO	4180	84	109	191	102	15
19	CNO-MFD X MON"S"	MEXICO	4167	83	105	190	109	20
11	TSH"S"	MEXICO	4140	83	106	189	99	17
24	TAN"S"	MEXICO	4122	85	98	186	96	18
25	TAN"S"	MEXICO	3904	83	102	188	99	20
26	HAR"S"	MEXICO	3647	86	109	191	104	17
	SUMMARY MEANS OVER VARIETIES		4652.4	83.6	105.3	188.3	91.8	13.3
	NUMBER OF LOCATIONS FOR EACH VARIABLE		3	2	3	1	3	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		9	4	8	3	8	3

Summary for 3rd ESWYT - 0203 Regional Report Region II

LOCATIONS ISRAEL--R.D.SDE-GAT . EGYPT --SOHAG . SYRIA --ALEPPO. TURKEY--IZMIR .

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.	FRST DMGE
4	VEE #3	MEXICO	5944	82	119	171	91	37	67
12	NACOZARI 76	MEXICO	5876	79	110	169	95	36	50
5	VEE"S"	MEXICO	5778	81	113	168	95	45	59
9	HAHN"S"	MEXICO	5733	77	120	170	87	40	42
10	HAHN"S"	MEXICO	5666	78	122	171	89	45	54
15	PAVON 76	MEXICO	5646	81	115	166	97	37	38
18	CAR422-ANA	MEXICO	5643	79	116	165	89	37	50
3	VEE #1	MEXICO	5597	81	117	173	96	39	63
30	LOCAL CHECK		5555	77	109	169	88	41	34
8	HAHN"S"	MEXICO	5538	77	122	171	87	42	42
28	YACO"S"	MEXICO	5505	78	110	167	92	39	67
6	BOW"S"	MEXICO	5500	81	118	173	96	37	59
2	BUC"S"	MEXICO	5452	79	117	173	93	37	71
7	CIANO 79	MEXICO	5436	80	114	172	90	39	67
17	BAYA"S"	MEXICO	5432	78	114	164	95	37	46
21	TESIA 79	MEXICO	5418	79	113	168	90	38	63
20	JUP-EMU"S" X GJO"S"	MEXICO	5403	81	109	169	85	42	50
16	NKT"S"	MEXICO	5361	77	123	170	101	40	34
14	SAP"S"-MON"S"	MEXICO	5290	79	114	167	96	35	50
13	MOR"S"	MEXICO	5255	80	116	167	73	39	50
11	TSH"S"	MEXICO	5252	81	118	170	102	42	54
22	LIRA"S"	MEXICO	5195	82	112	166	89	42	63
23	R37-GHL 121 X KAL-BB	MEXICO	5123	82	116	169	93	34	63
1	F12.71-COC	MEXICO	5075	81	117	171	87	43	67
24	TAN"S"	MEXICO	5023	79	110	167	99	40	50
19	CNO-MFD X MON"S"	MEXICO	4980	81	113	168	111	44	54
27	SPRW"S"-GJO"S"	MEXICO	4947	79	120	171	107	32	17
26	HAR"S"	MEXICO	4895	81	121	170	115	35	50
29	MN 72131-PVN"S"	MEXICO	4681	83	115	167	97	47	63
25	TAN"S"	MEXICO	4658	78	115	170	103	39	46
	SUMMARY MEANS OVER VARIETIES		5361.7	79.7	115.5	168.9	94.2	39.0	52.8
	NUMBER OF LOCATIONS FOR EACH VARIABLE		4	1	3	2	3	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		12	3	5	2	5	4	3

Summary for 3rd ESWYT - 0203 Regional Report Region III

LOCATIONS. BANGLADESH--JOYDEBPUR . PAKISTAN--PUNJAB

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 %
5	VEE"S"	MEXICO	5400	76	90	131	0	0	0	102	7
19	CNO-MFD X MON"S"	MEXICO	5263	77	90	129	2	2	0	115	30
30	LOCAL CHECK		5141	76	81	127	20	15	0	107	33
15	PAVON 76	MEXICO	5140	80	91	130	0	-	0	103	7
12	NACOZARI 76	MEXICO	5088	75	86	126	0	2	0	96	23
24	TAN"S"	MEXICO	5059	79	88	127	8	0	0	105	30
18	CAR422-ANA	MEXICO	4950	76	93	132	0	2	0	96	17
22	LIRA"S"	MEXICO	4946	76	89	129	0	0	0	96	10
17	BAYA"S"	MEXICO	4857	75	88	129	0	0	0	99	40
3	VEE #1	MEXICO	4793	79	97	134	1	0	0	97	7
21	TESIA 79	MEXICO	4755	75	87	127	0	4	4	92	20
16	NKT"S"	MEXICO	4715	77	102	135	0	0	0	101	23
25	TAN"S"	MEXICO	4647	78	94	131	0	0	0	101	37
4	VEE #3	MEXICO	4598	79	99	136	0	0	0	93	13
2	BUC"S"	MEXICO	4554	77	87	132	8	8	0	95	20
28	YACO"S"	MEXICO	4549	74	88	127	0	0	0	93	7
20	JUP-EMU"S" X GJO"S"	MEXICO	4515	76	83	127	0	2	0	89	0
23	R37-GHL 121 X KAL-BB	MEXICO	4498	78	87	129	0	0	0	95	7
29	MN 72131-PVN"S"	MEXICO	4492	80	95	131	0	0	0	97	27
13	MOR"S"	MEXICO	4470	78	90	130	0	4	0	83	0
6	BOW"S"	MEXICO	4382	79	94	136	0	0	0	95	30
10	HAHN"S"	MEXICO	4377	77	104	140	0	0	1	91	20
7	CIANO 79	MEXICO	4359	77	87	132	20	0	0	94	17
26	HAR"S"	MEXICO	4341	81	92	134	0	0	0	107	27
11	TSH"S"	MEXICO	4284	77	86	130	-	8	25	101	13
27	SPRW"S"-GJO"S"	MEXICO	4283	77	96	133	20	0	0	106	23
1	F12 71-COC	MEXICO	4033	78	96	137	0	0	0	84	0
14	SAP"S"-MON"S"	MEXICO	3868	77	90	131	0	0	0	103	30
9	HAHN"S"	MEXICO	3099	-	103	141	0	0	0	88	7
8	HAHN"S"	MEXICO	3095	-	103	141	0	0	0	90	3
	SUMMARY MEANS OVER VARIETIES		4551.5	77.3	91.6	131.6	2.7	1.6	1.0	96.8	17.6
	NUMBER OF LOCATIONS FOR EACH VARIABLE		2	1	2	2	1	1	1	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		6	3	4	4	1	1	1	4	3

Summary for 3rd ESWYT - 0203 Regional Report Region IV

LOCATIONS: ARGENTINA --CORDOBA . CHILE --CHILLAN/NUBLE . CHILE --SANTIAGO. BRAZIL--PARANA.

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT. L	LEAF RUST	STEM RUST	PLNT HT	LODG %	SHTR %	1000 G. W.	SCAB %	SEP T 0-9
5	VEE"S"	MEXICO	3998	70	60	96	0	12	0	76	10	30	26	20	1
7	CIANO 79	MEXICO	3892	71	60	96	0	13	4	73	10	80	23	20	1
17	BAYA"S"	MEXICO	3839	72	58	97	2	27	2	78	60	20	28	20	1
10	HAHN"S"	MEXICO	3800	73	87	115	0	6	1	71	-	-	32	20	1
26	HAR"S"	MEXICO	3791	75	73	111	0	1	0	86	50	-	24	40	2
4	VEE #3	MEXICO	3756	71	69	107	0	1	2	74	-	10	27	20	1
2	BUC"S"	MEXICO	3658	73	62	100	0	13	2	75	-	30	27	20	1
12	NACOZARI 76	MEXICO	3647	72	57	95	32	47	1	74	-	40	29	20	1
25	TAN"S"	MEXICO	3640	73	70	102	0	20	0	81	-	-	30	20	2
15	PAVON 76	MEXICO	3636	72	61	98	10	39	4	82	50	90	27	20	1
24	TAN"S"	MEXICO	3627	74	60	94	0	24	1	79	40	10	29	20	2
16	NKT"S"	MEXICO	3627	72	83	120	5	47	0	80	-	-	27	20	1
28	YACO"S"	MEXICO	3602	69	56	94	0	1	0	72	-	90	27	20	2
6	BOW"S"	MEXICO	3592	77	72	109	2	3	0	73	-	-	26	20	1
8	HAHN"S"	MEXICO	3576	73	85	117	1	11	0	71	-	-	36	20	1
21	TESIA 79	MEXICO	3551	73	57	98	1	1	10	70	90	10	26	20	2
19	CNO-MFD X MON"S"	MEXICO	3532	73	59	97	16	0	2	86	20	30	31	20	0
3	VEE #1	MEXICO	3527	72	69	111	1	4	3	77	-	-	28	20	2
23	R37-GHL 121 X KAL-BB	MEXICO	3507	74	59	97	1	4	0	70	-	30	25	20	1
30	LOCAL CHECK		3483	72	66	98	45	8	5	75	30	-	26	20	1
20	JUP-EMU"S" X GJO"S"	MEXICO	3474	75	55	94	60	2	3	65	-	90	32	20	0
22	LIRA"S"	MEXICO	3431	72	60	100	2	1	1	68	90	-	30	20	2
18	CAR422-ANA	MEXICO	3425	70	69	101	7	4	0	75	-	20	27	20	1
1	F12 71-COC	MEXICO	3368	75	77	111	8	4	0	68	-	-	31	40	1
13	MOR"S"	MEXICO	3269	73	58	95	0	33	1	63	-	30	30	40	1
9	HAHN"S"	MEXICO	3238	73	85	117	0	3	0	71	-	-	33	20	1
11	TSH"S"	MEXICO	3164	71	58	95	12	0	41	79	-	10	29	40	2
27	SPRW"S"-GJO"S"	MEXICO	3045	74	70	110	22	4	14	78	80	-	26	20	0
29	MN 72131-PVN"S"	MEXICO	2838	74	61	98	65	0	3	76	-	-	31	20	2
14	SAP"S"-MON"S"	MEXICO	2680	73	66	100	15	0	21	81	-	20	29	20	1
	SUMMARY MEANS OVER VARIETIES		3506.9	72.6	65.9	102.1	10.1	11.2	3.9	74.8	48.2	37.6	28.2	22.7	1.2
	NUMBER OF LOCATIONS FOR EACH VARIABLE		4	4	2	2	2	3	2	4	1	1	2	1	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		10	6	2	2	2	3	2	6	1	1	2	1	1

LOCATIONS: BOLIVIA --COCHABAMBA ECUADOR --QUITO,PICHINCHA

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	STRP RT.L	STRP RT.H	PLNT HT	SEP T 0-9
4	VEE #3	MEXICO	5244	74	85	143	0	0	85	0
5	VEE"S"	MEXICO	5104	74	74	138	0	1	82	0
22	LIRA"S"	MEXICO	4877	73	73	130	0	0	79	0
25	TAN"S"	MEXICO	4833	72	80	143	12	10	89	0
15	PAVON 76	MEXICO	4806	72	79	148	1	1	90	0
30	LOCAL CHECK		4713	70	67	130	1	0	88	0
3	VEE #1	MEXICO	4668	75	83	143	0	0	90	0
9	HAHN"S"	MEXICO	4151	75	88	156	0	1	77	0
19	CNO-MFD X MON"S"	MEXICO	4141	73	80	138	0	0	102	0
17	BAYA"S"	MEXICO	4064	71	79	138	0	20	86	1
26	HAR"S"	MEXICO	3982	73	87	150	8	40	98	0
10	HAHN"S"	MEXICO	3982	76	89	161	0	1	85	0
1	F12.71-COC	MEXICO	3899	74	85	150	0	1	78	1
14	SAP"S"-MON"S"	MEXICO	3872	71	80	150	16	5	91	0
29	MN 72131-PVN"S"	MEXICO	3852	74	75	135	0	1	83	0
23	R37-GHL 121 X KAL-BB	MEXICO	3820	72	76	153	18	30	82	0
13	MOR"S"	MEXICO	3810	70	74	130	6	10	66	0
24	TAN"S"	MEXICO	3794	73	72	130	3	1	82	0
7	CIANO 79	MEXICO	3697	72	79	150	24	50	78	0
28	YACO"S"	MEXICO	3665	67	71	128	48	60	77	0
8	HAHN"S"	MEXICO	3602	73	89	156	0	1	78	0
20	JUP-EMU"S" X GJO"S"	MEXICO	3439	71	69	135	18	10	73	1
2	BUC"S"	MEXICO	3384	69	80	150	32	20	85	0
11	TSH"S"	MEXICO	3359	75	78	133	18	40	88	0
18	CAR422-ANA	MEXICO	3333	69	83	150	0	1	79	0
21	TESIA 79	MEXICO	3297	65	73	130	99	60	78	0
6	BOW"S"	MEXICO	3222	73	83	150	0	0	83	0
16	NKT"S"	MEXICO	2826	64	92	156	24	30	87	0
27	SPRW"S"-GJO"S"	MEXICO	2708	71	81	153	48	60	87	1
12	NACOZARI 76	MEXICO	2548	-	74	130	99	99	77	0
	SUMMARY MEANS OVER VARIETIES		3889.5	71.8	79.0	142.9	15.8	18.4	83.2	0.1
	NUMBER OF LOCATIONS FOR EACH VARIABLE		2	1	2	1	1	1	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		6	1	6	2	1	1	6	2

Summary for 3rd ESWYT - 0203 Regional Report Region VI

LOCATIONS MEXICO--EDO DE MEXICO MEXICO--EDO DE MEXICO

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	FLOW DAYS	MAT DAYS	STRP RT.L	PLNT HT
19	CNO-MFD X MON"S"	MEXICO	5685	71	100	0	81
15	PAVON 76	MEXICO	5664	71	101	0	76
30	LOCAL CHECK		5477	69	102	4	69
14	SAP"S"-MON"S"	MEXICO	5455	73	111	0	79
6	BOW"S"	MEXICO	5448	76	105	0	73
1	F12.71-COC	MEXICO	5434	77	111	1	69
22	LIRA"S"	MEXICO	5429	67	100	0	69
4	VEE #3	MEXICO	5359	73	108	0	72
8	HAHN"S"	MEXICO	5333	80	112	0	69
11	TSH"S"	MEXICO	5299	70	106	0	79
18	CAR422-ANA	MEXICO	5262	77	102	1	72
2	BUC"S"	MEXICO	5107	71	101	31	72
21	TESIA 79	MEXICO	5097	69	102	5	69
20	JUP-EMU"S" X GJO"S"	MEXICO	5068	68	99	1	63
9	HAHN"S"	MEXICO	5034	79	113	0	70
26	HAR"S"	MEXICO	4999	79	113	1	88
10	HAHN"S"	MEXICO	4922	84	113	0	73
29	MN 72131-PVN"S"	MEXICO	4900	71	98	0	69
23	R37-GHL 121 X KAL-BB	MEXICO	4899	70	105	13	70
17	BAYA"S"	MEXICO	4891	69	99	2	71
27	SPRW"S"-GJO"S"	MEXICO	4783	76	106	1	79
25	TAN"S"	MEXICO	4744	76	107	0	80
13	MOR"S"	MEXICO	4716	66	98	2	53
3	VEE #1	MEXICO	4665	72	107	0	76
7	CIANO 79	MEXICO	4582	72	105	33	71
28	YACO"S"	MEXICO	4518	65	100	1	69
5	VEE"S"	MEXICO	4433	67	99	0	69
24	TAN"S"	MEXICO	4387	67	98	1	73
16	NKT"S"	MEXICO	3702	88	113	3	81
12	NACOZARI 76	MEXICO	3306	69	99	30	68
	SUMMARY MEANS OVER VARIETIES		4952.9	72.4	104.4	4.3	72.2
	NUMBER OF LOCATIONS FOR EACH VARIABLE		2	2	1	1	2
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		6	4	2	3	5

LOCATIONS CANADA--ALBERTA U.S.A.--MINNESOTA U.S.A.--OREGON

VAR NO.	VARIETY OR CROSS	ORIGIN	YIELD KG/HA	TEST WT	FLOW DAYS	MAT DAYS	PLNT HT	1000 G.W.
30	LOCAL CHECK		5206	75	56	108	88	31
5	VEE"S"	MEXICO	4979	74	56	106	77	37
15	PAVON 76	MEXICO	4955	78	58	114	81	39
27	SPRW"S"-GJO"S"	MEXICO	4908	78	58	111	83	44
18	CAR422-ANA	MEXICO	4858	74	64	116	73	44
29	MN 72131-PVN"S"	MEXICO	4758	79	59	111	79	43
24	TAN"S"	MEXICO	4742	77	55	110	79	41
9	HAHN"S"	MEXICO	4712	75	62	109	67	41
17	BAYA"S"	MEXICO	4681	74	57	109	76	41
3	VEE #1	MEXICO	4667	77	62	108	79	38
10	HAHN"S"	MEXICO	4647	77	64	109	71	44
6	BOW"S"	MEXICO	4647	78	61	111	78	34
12	NACOZARI 76	MEXICO	4634	74	53	109	76	33
8	HAHN"S"	MEXICO	4627	75	62	111	66	44
4	VEE #3	MEXICO	4586	76	63	109	75	34
7	CIANO 79	MEXICO	4578	76	59	111	71	33
26	HAR"S"	MEXICO	4568	79	65	115	80	36
25	TAN"S"	MEXICO	4561	77	61	115	79	41
2	BUC"S"	MEXICO	4560	76	60	113	76	42
28	YACO"S"	MEXICO	4507	75	54	108	73	38
21	TESIA 79	MEXICO	4477	76	54	110	71	32
16	NKT"S"	MEXICO	4435	74	66	116	78	38
23	R37-GHL 121 X KAL-BB	MEXICO	4353	79	54	111	73	31
13	MOR"S"	MEXICO	4306	77	57	111	60	37
1	F12.71-COC	MEXICO	4241	74	64	116	71	39
20	JUP-EMU"S" X GJO"S"	MEXICO	4237	77	53	111	68	39
11	TSH"S"	MEXICO	4206	76	57	113	77	39
22	LIRA"S"	MEXICO	4047	75	56	109	70	39
19	CNO-MFD X MON"S"	MEXICO	3811	74	58	116	88	40
14	SAP"S"-MON"S"	MEXICO	3587	76	60	115	78	39
	SUMMARY MEANS OVER VARIETIES		4536.2	76.0	58.7	111.4	75.2	38.4
	NUMBER OF LOCATIONS FOR EACH VARIABLE		3	3	2	1	2	1
	NUMBER OF OBSERVATIONS FOR EACH VARIABLE		9	3	6	3	6	1

Errata

Do not use the data in the column labeled "HEL S."
These data are not correct.

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